TRANSPORTATION & PUBLIC WORKS

Annual Report 2002-2003

Prince Edward Island
CANADA

Department of Transportation and Public Works

Annual Report

for the year ending March 31, 2003

Jones Building, 11 Kent Street,
P.O. Box 2000, Charlottetown,
Prince Edward Island, Canada, C1A 7N8
Telephone: 902-368-5100 Fax: 902-368-5395

Prince Edward Island
CANADA

The Honourable Leonce Bernard
Lieutenant Governor of Prince Edward Island

May It Please Your Honour:

I respectfully submit herewith, for the information of Your Honour and the Legislature of Prince Edward Island, the Annual Report of the Department of Transportation and Public Works for the period April 1, 2002 to March 31, 2003.

Respectfully submitted,

Gail Shea

Gail Shea
Minister

Prince Edward Island
CANADA

The Honourable Gail Shea
Minister
Department of Transportation and Public Works
Province of Prince Edward Island

Madam:

I am pleased to submit to you the Annual Report of the Department of Transportation and Public Works for the period April 1, 2002 to March 31, 2003.

The activities of the respective Divisions are recounted in the following pages of the Report.

Respectfully Submitted,

Steve MacLean, P.Eng.
Deputy Minister

Mandate

The mandate of the Prince Edward Island Department of Transportation and Public Works is to contribute to economic development and the quality of life in this province by maintaining and enhancing, in an affordable way, the essential transportation systems and services for the efficient and safe movement of people, goods, and services.

It is also necessary to provide the infrastructure necessary for the efficient conduct of government through services to other government departments in the areas of building construction, crown land management, building maintenance, and accommodations.

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Table of Contents

Departmental Mission Statement....1
Departmental Legislation....2
Departmental Organization....3
Personnel....4
French Language Services Implementation Plan....5

ENVIRONMENTAL MANAGEMENT

Activities....6

FINANCE, HUMAN RESOURCES AND OPERATIONS

Finance....13
Human Resources....13
Highway Safety Operations....13

PLANNING, BUILDINGS & PROPERTIES

Planning....29
Building Design and Construction....31
Building Maintenance & Accommodations....37
Properties....41

CAPITAL PROJECTS

Chief Engineer's Report....42
Schedule of Tenders....42
Design....48
Bridges....50
Materials & Soils....51
Traffic Operations....54
Provincial Sign Shop....55
Pavement Management System....57
Mapping & Geographic Information Systems....59
Chief Surveyor....60
Occupational Health & Safety....61

HIGHWAY MAINTENANCE

Highway Maintenance....63
Mechanical Branch....110

STATEMENT OF EXPENDITURES....113

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

MISSION STATEMENT

The role of the Department of Transportation and Public Works is four-fold:

- To provide high quality and timely policy advice to the Government of Prince Edward Island on all matters related to transportation and public works;

- To provide transportation infrastructure and foster development of a safe, efficient, affordable and environmentally sustainable transportation system for the movement of people and goods;

- To provide quality services to the rest of Government in the areas of building construction, Crown land management, building maintenance, accommodations and telecommunications; and

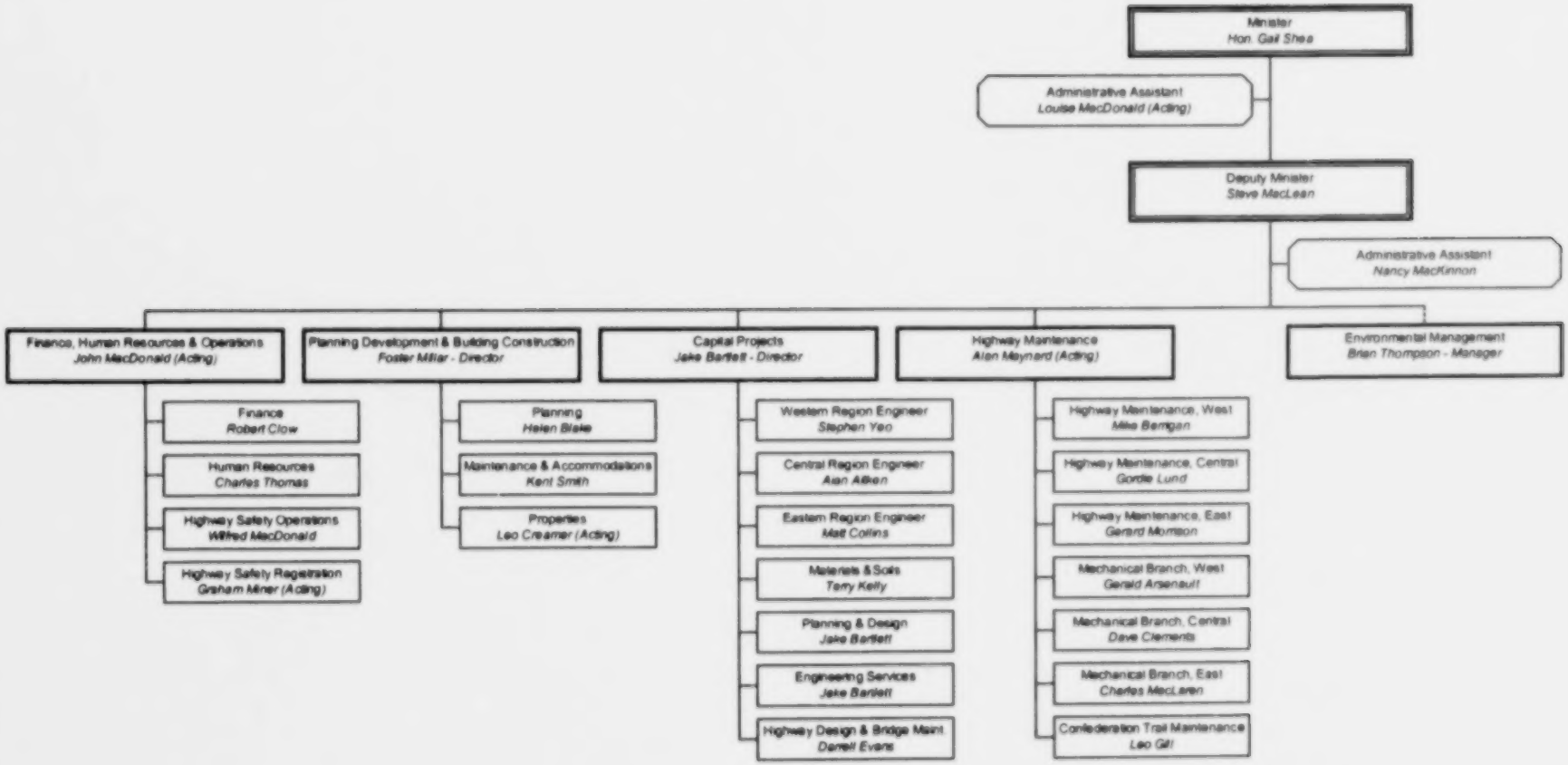
- To support development of the Prince Edward Island economy.

Clients include transportation users, enforcement agencies, the construction industry, and other Government Departments.

LEGISLATIVE RESPONSIBILITIES

- Architects Act
- Crown Building Corporation Act
- Dangerous Goods (Transportation) Act
- Engineering Profession Act
- Expropriation Act
- Georgetown Common Land Act
- Highway Traffic Act
- Land Survey Act
- Land Surveyor's Act
- Off-Highway Vehicle Act
- Public Works Act
- Roads Act

Department of Transportation and Public Works
Province of Prince Edward Island



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

Personnel

Minister	Hon. Gail Shea
Administrative Assistant	Louise MacDonald (Acting)
Deputy Minister	Steve MacLean
Administrative Assistant	Nancy MacKinnon
ENVIRONMENTAL MANAGEMENT	Brian Thompson, Manager
PLANNING DEVELOPMENT AND BUILDING CONSTRUCTION DIVISION	Foster Millar, Director
Planning	Helen Blake
Maintenance and Accommodations	Kent Smith
Properties	Leo Creamer (Acting)
FINANCE, HUMAN RESOURCES AND OPERATIONS DIVISION	John MacDonald (Acting)
Finance	Robert Clow
Human Resources	Charles Thomas
Highway Safety Operations	Wilfred MacDonald
Highway Safety Registration	Graham Miner (Acting)
CAPITAL PROJECTS DIVISION	Allan (Jake) Bartlett
Western Region Engineer	Steve Yeo
Central Region Engineer	Alan Aitken
Eastern Regional Engineer	Matt Collins
Bridge Maintenance	Darrell Evans
Materials and Soils	Terry Kelly
Planning & Design	Darrell Evans
Engineering Services	Allan (Jake) Bartlett
HIGHWAY MAINTENANCE	Alan Maynard (Acting)
Highway Maintenance, Western	Mike Berrigan
Highway Maintenance, Central	Gordie Lund
Highway Maintenance, Eastern	Gerard Morrison
Mechanical Branch, Western	Gerald Arsenault
Mechanical Branch, Central	David Clements
Mechanical Branch, Eastern	Charles MacLaren
Confederation Trail Maintenance	Leo Gill

FRENCH LANGUAGE SERVICES IMPLEMENTATION PLAN

The Department continues to respond to the requirements of the French Language Services Act through its 2000 implementation plan.

Focus continues in the following areas:

- ***Awareness***
  The Department's obligation to the French Language Services Act continues to be incorporated into the daily routine of staff, especially for those responsible for the distribution and release of information to the public, i.e., correspondence, media releases, public notices, etc.

- ***Human Resources***
  Human Resources are currently approaching the organizational structure to identify positions for potential bilingual designation. These results will be considered in the areas of succession planning and current incumbent training. Interviews have taken place for employees interested in assessing their levels of proficiency in the French language, and others who are new to the language have participated in one-day workshops.

- ***Signs***
  The same effort that resulted in the Traffic Section of the Capital Projects Division receiving an award in 2001 continues to occur. As existing signage stock is depleted, the format is changed to bilingual. Bilingual directional tabs are now being used on Route confirmations and the private road signs for 911 are totally bilingual. Any worded sign manufactured out of the Provincial Sign Shop is produced in a bilingual format.

- ***Document Translation***
  The Highway Safety Division is one of the larger groups responsible for the distribution and circulation of documentation for public consumption. This group continues to work closely with Acadian and Francophone Affairs to identify essential documentation for translation purposes.

Wendy Morrison
French Language Services Coordinator

ENVIRONMENTAL MANAGEMENT SECTION

The Section is responsible to ensure environmental management and regulatory compliance during construction and maintenance work performed by the Department or by others within the Provincial rights-of-way. It also implements an environmental management system that includes the following key elements: departmental project approval process; environmental protection planning; project inspections and compliance monitoring; environmental education and training; environmental design and planning; policy/program development; environmental assessments and studies; public consultation and public partnering projects. Highlights of activities are provided below:

PROJECT REGISTRATION AND APPROVAL PROCESS

General

The approval process remains the cornerstone for environmental control on a project-by-project basis. This process requires each maintenance or construction project, or any work activity by others within the Provincial right-of-way, be registered with the Environmental Management Section through submission of a project application form. Subsequently, the proposed projects are inspected and assessed for potential environmental effects, and an approval-to-proceed is issued complete with project specific conditions-of-approval.

Blanket Approvals

Across the Province, the Department conducts several activities that are repetitive in nature with low potential for causing adverse environmental effects. To simplify the approval process for these types of activities, they have been grouped by activity type and each activity type has been assigned a blanket approval with standardized conditions of approval. Generally, a blanket approval provides authorization for multiple projects of the same activity type to be completed under a single, county-based approval.

Blanket approvals were introduced in 1999/2000 and, since then, have been recognized as being both a convenient and effective method to provide environmental control over certain Department activities.

Efforts continued to streamline the project registration and approval process while, at the same time, maintaining established standards of environmental protection. Recognizing the significant operational benefits associated with blanket approvals, and as a result of their success to date, an additional nine new blanket approval types were successfully introduced. This doubled the number of blanket approval types in use across the Province from 9 to 18. This increase resulted in a 20% increase in the total number of projects completed under blanket approvals, and a corresponding 30% decrease in the number of standard project approvals, as compared to the previous construction season. This change has been welcomed by operational staff as an effective means to streamline the approval process.

Detailed breakdowns of standard project approvals and blanket approvals issued during the construction season are provided below.

Project Approvals

Three hundred and twenty-five environmental assessments/project approvals were processed during the fiscal year. Typically, each approval involves a preconstruction project site inspection, allocation of job-specific conditions of approval, issuance of the approval to proceed, and follow-up environmental compliance inspections on each project. A county-by-county breakdown of the 448 project approvals is provided in the table below. A total of 95 approvals were issued for Prince County, 127 approvals for Queens County, and 103 approvals for Kings County.

Project Approvals
(includes Watercourse Alteration Permits)

County	Approvals	Renewals	Total
Prince	79	16	95
Queens	108	19	127
Kings	80	23	103
Total number of Environmental Management approvals			325

Four types of approvals exist:

- Approval (no Watercourse Alteration Permit);
- Approval with accompanying Watercourse Alteration Permit;
- Approval with accompanying Watercourse Alteration Permit issued by Provincial Fisheries, Aquaculture and Environment (FAE); and
- Blanket approvals for specific TPW activities that have "predictable" environmental effects and "standardized" conditions-of-approval.

The number of approvals issued for each of these four approval types is presented below.

County	Blanket Approval	Section Approval (only)	Section Approval & Permit	Section Approval & FAE Permit	Total
Prince	26	31	25	12	95
Queens	26	45	40	16	127
Kings	26	23	35	19	103
Province	78	99	100	47	325

Blanket Approvals
Seventy-eight blanket approvals were issued during the fiscal year. Under these blanket approvals, a total of 619 individual projects were completed. A summary of projects completed in each county for the various blanket approval types is shown in the following table:

Blanket Approvals Summary

Blanket Approval Type	Number of Projects Completed Under Blanket Approvals			Province Wide Total
	Kings County	Queens County	Prince County	
Millings Placement	**6**	**10**	**45**	**61**
Road Bump Installations	**0**	**2**	**1**	**3**
Shore Access	**1**	**3**	**11**	**15**

Maintenance of Environmental Controls (including check dams)	15	30	31	76
Guardrail Reinstatement (with shoulder work)	23	21	16	60
Confederation Trail Surface and Slope Repairs	7	0	2	9
Gradall Ditching	16	26	70	112
Brush Cutting	40	0	6	46
Timber Pile Bridge Minor Repair	0	1	0	1
Resurfacing Unpaved Roads within 30 m of Watercourse/Wetland	19	26	19	64
Surface Water Cross Culvert Replacement	8	13	27	48
Repair, Increase or Replace Stabilization Materials at a Watercourse/Wetland	17	18	20	55
Maintenance of Provincial Tap Drains (outside 10 m of watercourse)	7	6	8	21
Shoulder grading/planing and Application of Shoulder Material within 30 metres of a Watercourse/Wetland	5	18	6	29
Repair/Replace Timber floors	1	4	3	8
Painting Bridge Structures	4	2	0	6
Asphalt Overlay	2	0	0	2
Debris Removal from Structures	0	2	1	3
Totals	171	182	266	619

ENVIRONMENTAL AUDIT RESULTS

An environmental audit was conducted in the Fall of 2002, with 45 randomly selected province-wide projects being audited. The audit results, which rate project compliance with assigned conditions of approval, conclude that 87% of projects conducted during the construction season met or exceeded their associated environmental requirements - 71% met all requirements, 16% exceeded requirements, 7% met most requirements, and 6% did not meet requirements. This rating is consistent with the Department's consistently strong environmental performance for previous years.

TRAINING DELIVERED BY ENVIRONMENTAL MANAGEMENT SECTION

A number of environmental training workshops/presentations as follows were delivered to staff during the fiscal year.

Training for Capital Projects and Highway Maintenance Divisions

Environmental workshop/discussion sessions were conducted for the Department's construction and maintenance supervisory staff. These sessions focussed on TPW's environmental policies and procedures as well as proper environmental techniques and controls for activities such as culvert installation, ditching, etc., and included open dialogue with participants who provided important recommendations for alternative techniques and improvements.

Training for Highway Maintenance Division Operators
At the start of the winter season, the Section participated in the winter maintenance operators orientation sessions in each county. These sessions provided an opportunity to deliver brief environmental presentations to the winter maintenance equipment operators, and to address outstanding questions. Presentation and discussion topics included the potential effects of road salt on the environment and fuel spill response.

MISCELLANEOUS INITIATIVES AND SERVICES

The following are some of the more notable environmental initiatives/services undertaken or completed:

Policy and Program Development
Developed and/or administered various policies and programs to assist in providing structured implementation of objectives and activities. The policies ensure that a consistent and clear approach to specified activities is understood and followed, as well as external agencies or persons such as engineering consultants, contractors or municipalities performing these same activities within the Province's rights-of-way. The programs are stand-alone initiatives, developed and implemented by the Department, that address an environmental issue associated to Departmental infrastructure or property but benefit the public or the environment as a whole.

Programs
- Environment Fund Program
- Fish Passage Restoration Program
- Environmental Audit Program
- Heritage Roads Restoration Program
- Highway Naturalization and Enhancement Program
- Maritime Electric Tree Trimming Program

Policies
- Seeding Policy
- Highway-related Beaver Management
- Fuel Spill Response Procedures
- Culvert Sizing Policy
- Water Well Replacement Policy
- Approval-to-Proceed - Renewal/Modification/ Extension Policy

Heritage Roads Restoration Program
The Section coordinated the development of a management strategy for Designated Scenic Heritage Roads (DSHRs). The Section received assistance from the Highway Maintenance Division, other Provincial agencies and the general public in their preparation of the strategy. The strategy recognizes that the historical and aesthetic value of the DSHRs are best protected through limited disturbance and change, especially since these roads pose such difficult environmental challenges primarily with respect to sedimentation. This strategy provides a practical guide for implementation of cost-effective protection methods to maintain the heritage of these unique roads and their surrounding sensitive environments including watercourses. Under the management strategy, two DSHRs were successfully restored during the fiscal year - the Mellish Pond Road in Kings County and the Klondyke Road in Queens County.

Agriculture-related Work
In an effort to control the potential effects of agriculture-based projects on the Provincial rights-of-way, a protocol was established with the Department of Agriculture that requires their identification of proposed projects through submission of project registration applications. On-site project assessments were coordinated with Agriculture representatives to identify and resolve any issues including methods to avoid ROW impacts, cost responsibility for any associated Department work, restoration requirements for effected ROW areas, etc. During the fiscal year, 13 agriculture-based projects were registered, assessed and completed.

Environment Fund Program
An environmental fund program was developed in partnership with the Highway Maintenance Division a number of years ago. This fund is a portion of the Maintenance Division's annual budget that allows for the completion of up to $100,000 annually of environmental-related maintenance work. The identification of potential projects and coordination of the work is carried out with the assistance of watershed and environmental interest groups across the Province. This very successful program demonstrates commitment to maintaining and improving the environment. The environment fund contributed to nine fish passage restoration projects, six erosion and sediment control projects, two Scenic Heritage Road restoration projects, and five miscellaneous environmental-type projects. Project specifics including costs are provided in the following table:

Environmental Fund Project Summary

Project Location (Structure ID)	Project/Items Description	Estimate	Actual Cost
Mount Royal (P1-002)	Stone and fabric for pools	$375.00	$375.00
Barclay Road (P1-001)	Stone and fabric for pools	$275.00	$462.00
Roseville (P1-094)	Stone and fabric for pools	$275.00	$275.00
Johnny Belinda Creek (K5-007)	Stone and fabric for pools	$300.00	$308.16
Cow Creek (K2-002)	Materials for baffles	$130.00	$130.00
Rosebank (P1-072)	Stone and fabric for pools	$482.00	$689.00
Bull Creek (K1-048)	Stone and fabric for pools	$300.00	$697.77
New Glasgow (Q2-031)	Materials for baffles	$110.00	$109.00
MacMillans Pond (Q4-034)	Stone and fabric for pools	$2,000.00	$2,477.39
	Fish Passage Restoration Projects ... Total		$5,523.32
Taylor Road	Straw blanket	$100.00	$841.50
Victoria Cross	Fabric, stone, baskets	$3,000.00	$3,147.50
New Road	Equipment rental and shale	N/A	$4,265.94
Old Town Road	Equipment rental and shale	N/A	$3,833.32
Hazel Grove Road	Equipment rental and shale	$5,000.00	$1,226.05
St Patricks Road	Equipment rental and shale	N/A	$1,101.33
	Erosion and Sediment Control Projects ... Total		$14,415.64
Mellish Pond Road	Scenic Heritage Road restoration	$11,600.00	$7,871.21
Klondyke Road	Scenic Heritage Road restoration	$21,000.00	17832.47
	Scenic Heritage Road Restoration Projects ... Total		$25,703.68
St Peters	Dredging - upstream of structure	$10,000.00	$8,107.45
Pete's Hill	Culvert restoration - plastic insert	$15,000.00	$15,000.00
Gunn's Bridge	Boat slip construction	N/A	$2,682.82
Campbell Shore Road	Bank stabilization -baskets, stone, fill	$9,095.00	$16,438.03
Primrose (MacLeod site)	Cattle crossing - baskets, stone,	$2,500.00	$2,366.84
	Miscellaneous Projects ... Total:		$44,595.14
	TOTAL COSTS:	**$81,542.00**	**$90,237.78**

Fish Passage Restoration Program
The Section and Highway Maintenance Division have been working diligently over the last number of years with the Fish and Wildlife Division and watershed groups from across the province to identify and repair fish passage barriers at highway culvert locations. The Department had a very successful year by upgrading fish passage conditions at 11 road culvert lo/cations.

Highway Naturalization and Enhancement Program
Seven projects were completed across the province under the highway naturalization enhancement program. This program, initiated as a pilot program in 2001, is aimed at enhancing the Island's natural landscape while addressing concerns for highway safety, soil stabilization, and post-construction vegetation and habitat restoration. The two main techniques used in the program include tree planting and the removal of unwanted vegetation.

Environmentally-based Community/Public Partnering Projects
Each year the Department receives many requests for assistance from watershed groups, environmental groups, community councils and others with projects that will enhance the environment or provide environmentally beneficial results for the general public. The Section coordinates the Department's involvement in a variety of these environmentally-related community and public partnering initiatives. Requests for assistance typically involve work that can be grouped into three categories: fish habitat and fish passage restoration; erosion and sediment control works; and community-based enhancement projects such as shore access repairs, boat slip construction, or assisting with providing access to recreational fishing areas. Work may involve in-kind provision of materials or services. Seventy-nine requests for assistance were received, with 49 being completed.

A larger community and public partnering project completed was the St. Peters Bay dredging project. This challenging and successful project involved removal and disposal of a large quantity of decaying sea plant material from the river bed that caused severe odour in the community during low tide periods.

Beaver Management
A beaver management policy was developed to address the problem of highway culverts frequently being obstructed by beaver activity. Two beaver management workers were hired to proactively identify and address road-related beaver problems using the preferred management method of "by hand" restoration. The cost of hiring these workers is small compared to the potential cost of responding to emergency events such as floods and washed out roadway culverts caused by beaver activity, as well as potential damage to surrounding property and aquatic ecosystem. There were 128 road-related beaver problems addressed.

Water Well Replacements
With the Department's necessary application of salt for ice control, there is potential for the road salt to migrate into the groundwater supply and ultimately effect well water quality. In instances where property owners, or the Department of Environment on behalf of a property owner, report drinking water containing elevated levels of chlorides resulting from road salt, consultation is held with the Groundwater Section of Environment and the property owner to conduct onsite inspections and obtain additional water samples as required to determine probable cause. In the event that road salt is determined to be the cause of elevated chloride levels, staff work cooperatively with the property owner towards resolution through appropriate means including well restoration or replacement. A Well Water Replacement Agreement was developed that documents immediate and long-term contractual responsibilities for both the Department and the property owner. Four drinking water wells were replaced during the fiscal year.

Committee Participation
There was representation on a number of inter-governmental and external committees during the fiscal year as follows:

- Brookfield Compost Facility Environment Committee
- Inter-departmental Coordinating Committee on Culture

- Panmure Island Improvements Task Group
- Stanley/Hope River Watershed Stewardship Committee
- Agricultural Runoff Committee
- Mill River Watershed Roundtable
- Livestock Fencing from Watercourse Committee
- Summerside West End Development Project Review Committee
- National Concrete Roads Advisory Committee
- Land Use Coordinating Committee
- Transportation Association of Canada (TAC) Environment Council
- Transportation Association of Canada (TAC) Road Salt Working Group
- Environment Canada's Road Salt Steering Committee
- Provincial Environmental Assessment Review Committee

Each committee requires varying levels of participation/effort. In conjunction with the Provincial Environmental Assessment Review Committee, comments were provided on the following project proposals:

- Malpeque Electric Ltd. Windfarm Project, Malpeque Bay
- Beef Plant, Albany
- 3.0 Megawatt Wind Turbine, Norway (North Cape)
- Island Waste Management Corporation Waste Watch Drop-off Facility, Brockton
- Island Waste Management Corporation Waste Watch Drop-off Facility, New London
- Baker Cummins Inc. Extraction Plant, Borden-Carleton

Regulatory Approvals and Environmental Assessments
Project approvals are acquired from external federal and provincial regulators and federal environmental assessments/screenings are completed for larger capital projects. This includes securing *Navigable Waters Protection Act* approvals and environmental screening approvals under the *Canadian Environmental Assessment Act.*

Navigable Water Protection Act Approvals
Approvals are acquired primarily for the Department's bridge replacement or repair projects. Approvals were received for three bridge replacement projects that were ongoing in 2002 and/or 2003, including Murray River Bridge, Poplar Grove Bridge and Sturgeon Bridge projects. The *Act* and its approval process is administered by the Coast Guard Division of Fisheries and Oceans Canada, and the approval process is intended to ensure that the public's right of navigation is protected from works which might interfere with navigation. The approval process often includes public advertisement of the project, submission and approval of a project-specific environmental assessment, and stakeholder consultations.

Canadian Environmental Assessment Act Screenings
Projects that involve federal funding, or have a federal department designated as the lead regulating agency, often require that environmental screening be completed and submitted for federal approval. Environmental screenings for two projects were completed under the Federal/Provincial Strategic Highway Infrastructure Program - Trans Canada intersection upgrades at John and Kellow Streets in Cornwall, and Park Street in Charlottetown.

FINANCE, HUMAN RESOURCES AND OPERATIONS DIVISION

The Finance, Human Resources and Operations Division is responsible for the financial, personnel and information technology services of the Department as well as Highway Safety Operations. The responsibility of this Division is to provide staff with accessible, accurate and timely on-line information on all matters relating to Administration, Finance, Human Resources and Information Systems and to facilitate payments for goods and services. The responsibility of Highway Safety Operations is to promote safe conditions for highway users, issue drivers' licenses and registrations for vehicles and administer the Highway Traffic Act, Off Highway Vehicle Act, Roads Act and the Transportation of Dangerous Goods Act.

FINANCE SECTION

The Finance Section is responsible for the financial services of the Department. This includes the preparation of the annual budget, budget control, departmental accounting, purchasing, inventory control and other related administrative support functions.

A detailed summary of Ordinary and Capital Expenditures for the year ending March 31, 2003 follows at the end of this Annual Report.

HUMAN RESOURCES SECTION

The Human Resources Section is responsible for the planning and administration of the Department's Human Resources and Information Technology initiatives: The work of the Section includes the following:

- Personnel and Payroll Services
- Departmental Training Administration
- Organizational Development
- Permanent and Seasonal Staffing
- Position Classification
- Collective Bargaining and Contract Interpretation
- Management Consultation
- Management of the Department's Information Technology services.

HIGHWAY SAFETY OPERATIONS

The overall objective is to promote and enforce safe conditions for highway users, issue driver's licenses, provide registration for vehicles and drivers, and to support the Minister of Transportation and Public Works in the administration of the *Highway Traffic Act*, *Off-Highway Vehicle Act*, *Roads Act*, and the Transportation of Dangerous Goods Act. The following Sections are tasked with the responsibilities of carrying out the objectives of Highway Safety:

- Driver Records
- Systems Development and Support
- IRP (International Registration Plan)
- Registration and Licensing (Legislation and Policy Development)
- Safety
- Commercial Vehicle Enforcement

Driver Records Section

The Records Section maintains records on all drivers and carriers with convictions for motor vehicle related offences throughout Canada, and who are scheduled for counselling activity such as an interview or a re-examination. The Records Management System (RMS) is one of the key programs used by this Section and is designed to efficiently and effectively maintain driving records to meet the needs for managing drivers and carriers. During the year, there were approximately 12,350 motor vehicle related convictions.

This Section maintains a close working relationship with all law enforcement agencies throughout the Province along with various other government departments and, in particular, the Office of the Attorney General. The Driver Records Section deals mainly with the *Highway Traffic Act, Roads Act, Dangerous Goods Act* and the *Maintenance Enforcement Act.* Driver Abstracts (driver's record) are provided through the Records Section. This service is available to insurance companies, law enforcement, the legal community or an individual.

The Records Section is responsible for the evaluation, preparation and processing of all *Highway Traffic Act* and driver related *Criminal Code of Canada* convictions. A summary of the major activities is shown below with the 2001-2002 figures displayed for comparison purposes.

Driver License Suspensions and Cancellations	**2001-2002**	**2002-2003**
Section 253(a) Criminal Code - (Impaired Driving)	54	60
Section 253(b) Criminal Code - (Failing the Breathalyzer)	298	275
Section 254(5) Criminal Code - (Refusal of the Breathalyzer)	75	39
Total Alcohol Related Convictions	**427**	**374**
Administrative Driving Prohibitions - (Revoked from July 1999 to March 2000 due to update of Regulations.)	351	329
Vehicle Impoundments	4	2
Demerit Point System (Point Accumulation)	377	378
Theft of a Motor Vehicle	36	42
Default in Payment of Fine(s) - (Motor vehicle related offences)	2383	981
Failure to Satisfy a Judgment - (Accident with an uninsured vehicle)	6	4
Reinstatement of driving privileges from suspension/cancellation **Revenue from Reinstatement Fees**	1,750 **$ 69,350.00**	1,400 **$ 74,075.00**
Number of Warning Letters Issued - (Point Accumulation)	1586	1425
Number of Driving Record Interviews Issued - (Point Accumulation)	327	356
Drivers required to undergo a re-examination for various reasons (Requests from Law Enforcement, Medical Practitioners, Etc.)	**2001-2002**	**2002-2003**
Medical Referrals Issued	148	190
Vision Referrals Issued	45	47
Driving Re-Examination Conducted	208	211
Driving Record Interviews	42	65
Restricted Driver Licenses Issued	31	36
Requests for Abstracts of Driving Records from Insurance Companies and Individuals **Abstract Fee ($15.00) - Revenue**	38,788 **$ 581,818.00**	39,765 **$596,475.00**

Systems Development and Support
Highway Safety have the following computer applications which statistical information can be generated:

- Driver Vehicle System (DVS)
- IRP (International Registration Plan)
- IRP Clearing House
- Records Management System (RMS)
- Collision and Accident Reporting System (CARS)
- Inter-Provincial Records Exchange System (IRE)
- Telephone Vehicle Registration System (TVRS)
- Photo Imaging System
- Carrier Management System

The International Registration Plan (IRP) Section
The International Plan (IRP) is a Registration Reciprocity Agreement among States of the United States and Provinces of Canada providing for payment of license fees on the basis of total distance operated in all jurisdictions. The fees are divided among the IRP jurisdictions through which the vehicles travel and allow movement on an interjurisdictional and intrajurisdictional basis.

Typically, vehicles over 11,794kgs (26,000lbs) or buses with 20 seats or more that wish to travel in two or more jurisdictions must register under IRP. It is not mandatory that vehicles be registered under this Agreement, but if carriers do not register they will be required to register separately in each jurisdiction in which they travel or obtain an annual, part-year or temporary permit or single-trip permit.

During the year, there were 232 Prince Edward Island based carriers registering a total of 779 vehicles under the Agreement.

It is the purpose of this Agreement to grant reciprocity to apportioned fleets of vehicles and to provide for the continuance of reciprocity granted to those vehicles that are not eligible for apportioned registration under the terms of the Agreement.

IRP Clearinghouse
In November 2002 Prince Edward Island became the third Canadian jurisdiction to join the IRP Clearinghouse. This involves the electronic exchange and reconcilement of registration fee information and funds through a central computer system among member jurisdictions of the International Registration Plan.

Canadian Agreement on Vehicle Registration (CAVR)
CAVR is a Full and Free Reciprocity Agreement for Category "B" vehicles for interprovincial operations that may operate in all Canadian Provinces when legally registered in their home jurisdiction. They cannot be used for intra-provincial transportation, unless they meet conditions specified in Article V of the Agreement.

Atlantic Provinces Reciprocity Agreement
The Atlantic Provinces Reciprocity Agreement allows for the movement of all vehicles described in the Canadian Agreement on Vehicle Registration (CAVR) to perform both interjurisdictional and intrajurisdictional operations in the four provinces. This Agreement also allows for full reciprocity for miscellaneous equipment, road equipment that is used for construction and maintenance, dealer plates and in-transit permits.

IRP services are provided at the Charlottetown office of Highway Safety Operations. The Distribution of Revenue is listed in the tables that follow.

Distribution of Revenue Collected from P.E.I. Based Carriers for Canadian Jurisdictions

PROVINCE	REGISTRATION FEES	SALES TAX FEES	ADMINISTRATION FEES	TOTAL FEES
PE	$ 440,195.00	0	47,182.00	487,377.00
NB	435,591.00	0	0	435,591.00
NS	102,773.19	0	0	102,773.19
NF	7,594.53	0	0	7,594.53
QC	88,177.00	0	0	88,177.00
ON	76,744.00	37,906.90	0	114,650.90
MB	12,213.00	9,028.15	0	21,241.15
SK	16,146.00	14,901.00	0	31,047.00
AB	8,119.00	0	0	8,119.00
BC	3,868.00	4,236.43	0	8,104.43
TOTALS	$1,191,420.72	$ 66,072.48	$ 47, 182.00	$ 1,304,675.20

All Fees in Canadian Dollars

Distribution of Revenue Collected from PEI Based Carriers for United States Jurisdictions

JURISDICTION	PRORATE FEES (REG FEES)	SALES TAX FEES	TOTAL FEES
AL	$ 131.57	0	131.57
AZ	1,400.14	0	1,400.14
AR	705.56	0	705.56
CA	1,031.17	604.00	1,635.17
CO	903.07	422.08	1,325.15
CT	9,478.79	0	9,478.79
DE	908.92	0	908.92
DC	25.47	0	25.47
FL	1,843.90	0	1,843.90
GA	1,072.84	0	1,072.84
ID	1,549.58	0	1,549.58
IL	4,572.98	0	4,572.98
IN	1,134.99	501.70	1,636.69
IA	1,921.55	0	1,921.55

KS	237.78	0	237.78
KY	587.92	0	587.92
LA	51.70	0	51.70
ME	22,081.51	25,212.10	47,293.61
MD	1,792.31	0	1,792.31
MA	9,504.70	0	9,504.70
MI	3,627.06	0	3,627.06
MN	2,187.29	0	2,187.29
MS	234.44	190.72	425.16
MO	997.00	0	997.00
MT	1,315.48	529.00	1,844.48
NE	1,056.24	0	1,056.24
NV	491.88	189.92	681.80
NH	1,251.31	0	1,251.31
NJ	5,686.48	0	5,686.48
NM	44.91	0	44.91
NY	8,192.21	0	8,192.21
NC	1,990.59	0	1,990.59
ND	1,295.16	0	1,295.16
OH	1,891.48	0	1,891.48
OK	375.26	0	375.26
OR	54.28	0	54.28
PA	7,808.51	950.42	8,758.93
RI	926.85	0	926.85
SC	1,127.65	0	1,127.65
SD	345.58	0	345.58
TN	1,288.79	0 .79	1,289.58
TX	676.81	0	676.81
UT	389.74	347.15	736.89
VT	1,533.22	0	1,533.22
VA	$3,145.46	0	$3,145.46
WA	1,442.12	9.86	1,451.98

WV	709.96	357.66	1,067.62
WI	2,618.49	0	2,618.49
WY	1,121.05	0	1,121.05
TOTAL	$114,761.75	$29,315.40	$144,077.15

All fees in US Dollars

Distribution of Revenue Remitted from All Canadian Jurisdictions to P.E.I.

Jurisdiction	Prorate Fees (Reg Fees)	Sales Tax Fees	Cab Card Fee (Admin Fees)	Total Fees
NB	$135,798.00	$ 723.02*	$2,480.00*	$139,001.02
NS	60,194.00	821.85*	1,660.00*	62,675.85
NF	3,138.00	88.24	0	3,226.24
QC	37,326.71	444.17*	1,240.00*	39,010.88
ON	10,564.00	1,342.40*	540.00*	12,446.40
MB	479.00	0	80.00*	559.00
SK	1,489.00	0	240.00*	1,729.00
AB	1,972.00	291.75*	600.00*	2,863.75
BC	115.00	739.05*	1,280.00*	2,134.05
Cat B	0	0	240.00	240.00
Total	$251,075.71	$4,450.48	$ 8,360.00	$ 263,886.19

All Fees in Canadian Dollars

* Sales tax and administrative fees collected under the CAVR program but, not remitted to P.E.I. by jurisdictions until the fiscal year April 1, 2002 - March 31, 2003.

Distribution of Revenue Remitted From All US Jurisdictions to P.E.I.

Jurisdiction	Prorate Fees (Reg Fees)	Total Fees
AL	$ 788.34	$ 788.34
AZ	2,696.42	2,696.42
CA	17.29	17.29
CO	1.05	1.05
CT	11.26	11.26
FL	196.26	196.26
GA	25.00	25.00
IL	678.25	678.25

IN	253.00	253.00
IA	15.16	15.16
KS	5.77	5.77
KY	458.90	458.90
LA	5.73	5.73
ME	1,085.23	1,085.23
MD	554.87	554.87
MA	37.00	37.00
MI	407.79	407.79
MN	240.29	240.29
MS	47.53	47.53
MO	275.18	275.18
MT	35.92	35.92
NE	1,776.09	1,776.09
NV	34.33	34.33
NH	557.14	557.14
NJ	114.29	114.29
NY	525.75	525.75
NC	67.67	67.67
ND	4,322.00	4,322.00
OH	175.47	175.47
OK	936.24	936.24
PA	85.94	85.94
SD	54.56	54.56
TN	271.92	271.92
TX	411.97	411.97
UT	9.08	9.08
VT	18.34	18.34
VA	73.83	73.83
WA	32.62	32.62
WV	0.76	0.76
WI	2.64	2.64

WY	8.95	8.95
TOTAL	$17,315.83	$17,315.83

All Fees in US Dollars

Recap of Revenue

Revenue collected from PEI based carriers for all ten Canadian jurisdictions (in Canadian Dollars) $1,304,675.20

Revenue retained by Prince Edward Island ..... $ 487,377.00

Revenue remitted to remaining Canadian jurisdictions (in Canadian Dollars) ..... $ 817,298.20

Revenue collected from PEI based carriers for US jurisdictions (in US Dollars) ..... $ 144,077.15

Total revenue remitted to Prince Edward Island from all Canadian jurisdictions (in Canadian Dollars) ..... $ 263,886.19

Total revenue remitted to PEI from US jurisdictions (in US Dollars) ..... $ 17,315.83

Registration and Licensing Section

Registration and Licensing service delivery is carried out through a service level agreement with Access P.E.I.

Vehicle Registration Breakdown

TYPE	2001-2002	2002-2003
Cars	63,460	62,922
Trucks	22,502	21,660
Motorcycles	1,114	976
Buses	442	365
Trailers	9,458	9,672
Off-Road Vehicles	1,729	1,676
Miscellaneous - Other Vehicles	670	721
Total Registrations	99,008	97,992

Total Number of Drivers per Class

CLASS	2001-2002	2002-2003
CLASS 1 - Tractor Trailers	4,000	4,175
CLASS 2 - Bus for more than 24 passengers including School Bus	948	1,317
CLASS 3 - Trucks over 14,000 kgs	9,090	9,154
CLASS 4 - Ambulance, Bus, Taxi for less than 24 passengers	5,149	5,367
CLASS 5 - Car, light truck	84,789	88,166
CLASS 6 - Motorcycle	7,013	6,380
CLASS 7 - Beginner's Instruction Permit	2,619	2,811

Safety Section

The Safety Section deals with issues relating to the driver and vehicle. In each of these categories, the measures designed to counter highway collisions were separated into education and enforcement techniques which are primarily directed to highway users, and by engineering developments directed to safety improvements of the vehicle.

Countermeasures were planned and conducted on the premise that the driver is ultimately responsible for motor vehicle operation on the highway. The countermeasure strategy is to increase the driver's knowledge of highway laws and safe driving practices. These include utilizing the news media for promotional and information purposes, testing new drivers, having licensing control over newly licensed drivers and correction of unsafe practices among all drivers.

The Safety Section plans and co-ordinates the following programs:

- Promotion of Highway Safety
- Driver Improvement Programs
- Motor Vehicle Inspection
- Highway Weight Enforcement
- National Safety Code

The basic objective of driver testing is to establish and maintain acceptable standards for the issuance of driver licenses for all classes of vehicles in accordance with the provisions of the *Highway Traffic Act*, regulations, and department policies. A driver requires the necessary knowledge, skill, physical and mental ability to operate a motor vehicle in order to obtain a driver's license.

A Driver Examiner tests all drivers applying for an initial license at Highway Safety, as well as those applying for a higher class of license. Tests are passed by successfully completing a written examination of rules of the road, a vision screening and a behind the wheel road test.

Driver Testing Statistics

Knowledge Tests 2001-2002	Knowledge Tests 2002-2003	Road Tests 2001 - 2002	Road Tests 2002-2003
1837	1899	1800	1965

Driver Education Licensing Certification Program

Highway Safety encourages young drivers to become involved in a Driver Education Program in order to promote correct driving habits. Applicants enrolled in a Driver Education Program can obtain their Instruction Permit at 15 ½ years of age, however, they must wait at least 180 days and be at least sixteen years of age before becoming eligible for a road test.

Nine commercial Driver Education Schools operated in Prince Edward Island during the year. Each school offered twenty-five hours of in-classroom instruction and ten hours behind-the-wheel training and six hours of observation time as required by the Driving School Regulations.

Driver Education School - Class 5 Driver License

Written Examinations		Road Tests	
2001-2002	1366	2001-2002	1167
2002-2003	1382	2002-2003	1284

Driver Improvement Program

The primary function of driver improvement is to identify problem drivers through their driving record. Interviews and meetings are conducted to encourage drivers to change their driving habits and attitudes in order to reduce fatalities, injuries and property damage. When a driver accumulates six or more demerit points, they are advised of the consequences which could result by the accumulation of additional demerit points. Nine or more demerit points requires the driver to attend a driver improvement interview, during which the driver is provided with an awareness of a driving problem and the process to a solution to the problem. Twelve or more demerit points results in the suspension for three months of the driver's license. All suspended drivers must attend a reinstatement interview and a Driver Improvement Course. Failure to attend this course could result in further suspension of the driver's license. During the year, a total of 77 drivers successfully completed the Driver Improvement Course.

Driver Rehabilitation Program

All drivers who are convicted of a second or subsequent offence for impaired driving pursuant to Section 253(a) (impaired driving), 253(b) (failing the breathalyser), or 254(c) (refusal of the breathalyser)of the *Criminal Code of Canada* must complete a driver risk assessment which is conducted by Highway Safety. This assessment must be completed before a suspended driver can have their driver's license considered for reinstatement. Further referral to Addiction Services or to a Driver Rehabilitation Program could be required.

A Driver Rehabilitation Program is also conducted for a first-time offender convicted of impaired driving. This program is a requirement before a driver's license is reinstated. During the year,192 drivers completed a Driver Rehabilitation Program.

Assessment Program
The Alcohol Assessment Referral Program requires drivers with three or more convictions for impaired driving to have an alcohol assessment completed and, if required, undergo curative treatment at an addiction services centre. A probationary driver's license may be returned to the driver if the treatment program recommended by Addiction Services was followed. The probationary license is valid as long as the treatment program is followed. During the year, a total of 72 drivers participated in the Assessment Program.

Novice Driver Course
The Novice Driver Course is compulsory unless a Driver Education Course has been successfully completed. All new drivers applying for a license must complete either of these courses prior to taking a road test.

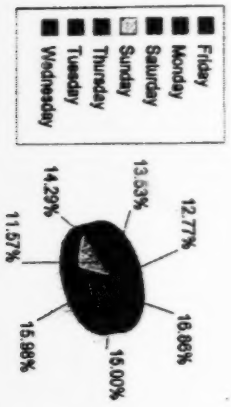
The Novice Driver Course is made available through Highway Safety, and courses can be taken in Charlottetown, Montague, Souris, Summerside and Elmsdale. During the year, a total of 760 students successfully completed the Novice Driver Course.

Defensive Driving Course
Courses on safe driving habits have been developed by the Canada Safety Council with the cooperation of provincial governments. In Prince Edward Island, this course is administered by the PEI Safety Council, which is affiliated with St. John Ambulance. Attendance at these courses is voluntary and those who successfully complete the course receive a bonus of 3 points which can be used as a credit in the Demerit Point System. During the year, a total of 152 drivers successfully completed the Defensive Driver Course.

Collision and Reporting System (CARS)

During the year, there were 1832 collisions resulting in 1048 Injuries and 19 fatalities. The fatalities included 12 drivers, 4 passengers, 2 pedestrian 1 cyclist. (In addition there was one off-highway vehicle fatality).

Accidents By Day Of Occurance



Accidents By County of Occurance

Drivers Involved In Accidents By Gender

Persons Injured by Age

Age	Female	Male	Unknown	Grand Total
0-4	9	7		16
05-14	37	26		63
15-19	107	86		193
20-24	70	70		140
25-34	102	91		193
35-44	95	86		181
45-54	58	47		105
55-64	32	27		59
N.S.	17	5	1	23
NL 65	46	29		75
Grand Total	573	474	1	1048

Persons Killed by Age

Age	Female	Male	Grand Total
15-19		4	4
20-24	1	1	2
25-34	1	4	5
35-44		4	4
45-54		2	2
55-64	1		1
NL 65	1	1	2
Grand Total	4	16	20

Collisions Involving Injuries / Fatalities by Time

Hour	Fatality	Personal Injury	Property Damage
Midnight to 1 a.m.	3	11	16
1 a.m. to 2 a.m.	1	7	22
2 a.m. to 3 a.m.		16	20
3 a.m. to 4 a.m.	1	9	11
4 a.m. to 5 a.m.	1	7	8
5 a.m. to 6 a.m.		6	11
6 a.m. to 7 a.m.		12	14
7 a.m. to 8 a.m.		20	25
8 a.m. to 9 a.m.	1	36	70
9 a.m. to 10 a.m.		21	49
10 a.m. to 11 a.m.		46	80
11 a.m. to Noon		51	81
Noon to 1 p.m.	3	39	97
1 p.m. to 2 p.m.		47	72
2 p.m. to 3 p.m.	1	36	78
3 p.m. to 4 p.m.	3	49	81
4 p.m. to 5 p.m.	1	53	84
5 p.m. to 6 p.m.		34	56
6 p.m. to 7 p.m.	2	39	56
7 p.m. to 8 p.m.		31	45
8 p.m. to 9 p.m.		30	44
9 p.m. to 10 p.m.	2	22	41
10 p.m. to 11 p.m.		23	52
11 p.m. to Midnight		18	26
Grand Total	19	655	1159

Traffic Safety Promotion
Highway Safety provides information regarding traffic safety through the use of the news media, brochures, posters and pamphlets. Campaigns are conducted promoting rules of the road, bicycle safety, off-highway vehicle rules, vehicle safety, winter driving tips, registration and license renewal reminders and seat belt use. A continuous campaign is conducted to encourage drivers not to drink and drive.

The SADD (Students Against Drunk Driving) program is also promoted and encouraged through Highway Safety. Each of the 12 high schools across the province has a Chapter of SADD.

Commercial Vehicle Enforcement Section
Motor Vehicle Inspection
The Motor Vehicle Inspection program monitors the operating condition of all motor vehicles in Prince Edward Island. Inspection stations and mechanics are required to meet specific criteria in order to be licensed by the Province through Highway Safety.

The stations and mechanics are closely monitored by Motor Vehicle Inspection Officers.

Motor Vehicle Inspection Statistics

No. Stations	No. Mechanics	Cars/Trucks	Farm Trucks	Motorcycles	Trailers	TOTAL	No. Rejected
205	503	91,683	1,953	400	4,845	98,881	4,224

Roadside Vehicle Checks
Highway Safety Peace Officers, assisted by police agencies, periodically conduct roadside vehicle checks throughout the year. Items checked include driver's license, vehicle registration, inspection, insurance coverage, use of seat belts, window tint and infractions under the *Liquor Control Act*.

The statistical data for Roadside Vehicle Checks is as follows:

Number of charges	
Number of Road Checks	
Total vehicles checked	Approx.

Inspection Facilities (Stationary Scales)
There are two weigh scale stations in Prince Edward Island. One is located at Borden-Carleton and the other in Wood Islands. The Borden-Carleton Scales are opened 24 hours a day throughout the year and are staffed by five full-time officers, two full/part-time officers and one relief officer.

The Wood Islands scales operate from May to mid December each year, and are open daily. Staff includes one full-time and two full/part-time officers.

Weigh Scale Officers enforce the *Roads Act* and Vehicle Weight Regulations, *Highway Traffic Act* and Regulations, *Transportation of Dangerous Goods Act* and Regulations, *Plant Health Act* and the *Animal Health Act*.

Commercial Vehicle Enforcement Statistics

Truck Movement

ACTIVITY	LOCATION	NUMBER
Canadian Trucks	Borden/Carleton Scales Wood Islands Scales	244,909 11,380
U.S. Trucks	Borden/Carleton Scales Wood Islands Scales	850 07

Driver and Vehicle Checks

ACTIVITY	LOCATION	NUMBER
Driver's Documents	Borden/Carleton Scales Wood Islands Scales	10,016 502
Hours of Work (Driver's Log)	Borden/Carleton Scales Wood Islands Scales	1,231 96
Trip Inspections	Borden/Carleton Scales Wood Islands Scales	1,233 72
Dangerous Goods Inspections	Borden/Carleton Scales Wood Islands Scales	468 01

Miscellaneous Activities

ACTIVITY	LOCATION	NUMBER
Quick Check Stickers Issued	Borden/Carleton Scales Wood Islands Scales	446 150
Potato Levy Slips Collected	Borden/Carleton Scales Wood Islands Scales	9,612 265
Vehicles Checked For Taxable Goods	Borden/Carleton Scales Wood Islands Scales	52 5
Forest Products	Borden/Carleton Scales Wood Islands Scales	6,053 1008
Vehicles Quarantined Plant Health Act	Borden/Carleton Scales Wood Islands Scales	08 00
Apiary Act	Borden/Carleton Scales Wood Islands Scales	0 01
Animal Health Act	Borden/Carleton Scales Wood Islands Scales	01 00
Fisheries Product Act	Borden/Carleton Scales Wood Islands Scales	0 71

Permits Issued

TYPE	LOCATION	NUMBER	REVENUE
In-Transit	Borden/Carleton Scales Wood Islands Scales	46 7	$ 230.00 35.00
Oversize	Borden/Carleton Scales Wood Islands Scales	432 34	8,990.00 620.00
Overweight	Borden/Carleton Scales Wood Islands Scales	70 8	1,750.00 200.00
Trip	Borden/Carleton Scales Wood Islands Scales	546 27	75,460.00 2,850.00
Fuel	Borden/Carleton Scales Wood Islands Scales	331 25	8,275.00 625.00
Work	Borden/Carleton Scales Wood Islands Scales	43 01	9,900.00 300.00
Non-Compliance	Borden/Carleton Scales Wood Islands Scales	190 12	19,000.00 1,200.00
Disinfection Fees	Borden/Carleton Scales Wood Islands Scales	1741 86	18,628.70 920.20
Other Category B	Borden/Carleton Scales Wood Islands Scales	0 0	0.00 0.00
TOTALS	Borden/Carleton Scales Wood Islands Scales	3399 200	**$142,233.70** **6,750.20**

Recorded Violations

ITEM	LOCATION	NUMBER	REVENUE
Roads Act	Borden/Carleton Scales Wood Islands Scales	393 44	$ 46,195.00 4,930.00
Highway Traffic Act	Borden/Carleton Scales Wood Islands Scales	125 06	9,130.00 1,010.00
Dangerous Goods Act	Borden/Carleton Scales Wood Islands Scales	0 0	0 0
TOTALS	Borden/Carleton Scales Wood Islands Scales	518 50	$ 55,325.00 5,940.00

Enforcement Officers conduct Commercial Vehicle Safety Alliance (CVSA) roadside inspection of drivers and vehicles and loads carried.

Vehicles inspected fall into three categories:

- Pass (CVSA sticker applied to vehicle)
- Out of Service (vehicle must be towed or repaired before it proceeds)
- Restricted (Vehicle must be repaired before next dispatch).

Driver's inspected fall into two principle areas:

- Non-compliance
- Compliance

These inspections would include hours of service (log book), status of license, required endorsements, etc.

Commercial Vehicle Safety Alliance Statistics

ITEM	2001-2002	2002-2003
Total Number of Trucks Inspected	938	1740
Power Units Out Of Service	56	112
Trailers Out Of Service	50	102

The Portable Scale Unit consists of two vehicles and portable wheel weigher scales. The unit is staffed by two permanent full-time officers.

Officers enforce the *Roads Act*, Vehicle Weight Regulations, *Highway Traffic Act*, *Transportation of Dangerous Goods Act*, Fuel Tax, *Plant Health Act* and *Animal Health Act*.

Portable Scales Statistics

CHARGES	REVENUE
335	$ 41,609.00

There were 4,967 notifications of insurance cancellations during the year.

Highway Safety Officers completed 28 audits of the 141 licensed Dealers in P.E.I. These audits are to ensure compliance with the regulations for holding a Dealer's Trade License.

PLANNING, BUILDINGS, AND PROPERTIES DIVISION

General activities and specific projects carried out by each Section are summarized as follows:

PLANNING

The Planning Section is responsible for the assessment and analysis of transportation requirements and policies within the Province, including road, air and marine. This Section also provides professional engineering support and direction in the areas of:

- strategic and functional highway planning
- creation of preliminary design options
- preparation and review of traffic studies
- project management support and supervision for special projects relating to transportation planning, design and highway construction
- department representation during the planning and implementation of infrastructure development projects on behalf of municipalities and community development groups
- strategic federal policies, regulations, infrastructure and services including aviation and ports on Prince Edward Island
- support and planning with regard to the implementation and management of transportation research initiatives and new technologies which have the potential to contribute to the enhanced economic development by improving safety and efficiency on the provincial highway network; and
- monitoring and participating in federal and provincial initiatives relating to global warming and climate change, as well as other federal initiatives relating to transportation.

The following is a list of projects that the Planning Section has been involved with over the last year:

Intelligent Transportation System (ITS)
Intelligent Transportation Systems (ITS) include the application of advanced information and communication technologies to make our transportation systems safer, integrated, efficient and environmentally accountable. This technology can provide enhancement to public and rural transportation in the region improving efficiency in: traffic, public transit, commercial vehicle management and traveler information.

The Province, in cooperation with the other three Atlantic Provinces and Transport Canada, has developed the terms of reference for an Atlantic Regional ITS strategic plan which focuses on developing a comprehensive roadmap setting the direction and pace of ITS investments within each of the four Atlantic Provinces over the next ten years and beyond in a coordinated and focused manner. The development of a regional strategic plan will lay the necessary ground work for the implementation of ITS application in the four Atlantic Provinces.

Charlottetown Area Transportation Study
The Charlottetown Area Transportation Study was completed in December of 2001. This comprehensive transportation study was a joint effort between this Department, the Department of Development and Technology, Charlottetown Area Development Corporation, the City of Charlottetown, and the Towns of Stratford and Cornwall. A major deliverable of the project was a computer based transportation model with representation of the major street network within the study area. The model enables the City, Towns and the Province to accurately envision and forecast traffic patterns within the study area. These tools can also be used to assess the traffic impacts of proposed developments.

Public Transportation
Staff continue to examine the concept of public transit, including the various economical, environmental and community implications surrounding public transportation to determine what possible benefits might accrue.

Divisional staff continue to learn more about existing private transportation operations on PEI, investigating the demographics of the potential ridership, geographic areas of need and associated operating and capital costs. Staff also participated in the Shifting Sands Conference sponsored by the PEI Seniors Federation. Seniors are often identified as a potential ridership and there is an anticipated increase in the number of seniors within the next ten to fifteen years as a result of the baby boom generation.

PEI Marine Port Divestiture
In December 1995, Transport Canada announced the creation of a National Marine Policy, calling for modernization of the marine management and regulatory regime and greater efficiency and effectiveness in the marine transportation sector. The direction of the National Marine Policy is to commercialize ports, waterways and services formerly provided by the Canadian Coast Guard such as ice-breaking, navigational aids, dredging and other marine services.

The port facilities in Charlottetown, Summerside, Souris, and Georgetown are important economic generators in these communities, and to the Province as a whole. While these ports do not handle the high volume of traffic handled by other Maritime ports such as Halifax or Saint John, they do have significant traffic which is important to the Island's economy.

In June 2000, Transport Canada initiated discussions with the Province concerning the divestiture of the four Island ports. The Province continues to work with the Federal government on this issue and believes that full discussion and consideration of all the relevant factors may enable the two levels of government to reach an acceptable agreement regarding the future operation of the four Federal Island ports.

Air Transportation
The National Airports Policy (NAP) was a commercialization initiative representing a Government of Canada vision for airports to ensure a safe, secure and viable National Airports System that would serve Canada into the 21st century. The divestiture and transfer process of airports to local airport authorities was successful in terms of bringing business practices and community involvement to local airports. However, some smaller airports have expressed concerns regarding their financial viability.

However, these changes to the air industry coupled with the merger of Canadian Airlines International into Air Canada have impacted the number of regional service flights. Route rationalization and changes in aircraft type are affecting flight frequency, routings, and route capacities, scheduling and fares with consequent effects on airports activities and revenues. As a result, a number of airports are concerned about their ability to operate and maintain their facilities.

Global Warming and Climate Change
The Division continues to participate on national committees addressing the issue of climate change, including the *Federal/Provincial Transportation Working Group on Climate Change* and the *Data Strategy Committee*. These committees continue to define a national strategy to reduce transportation-related greenhouse gas emissions and methods of measuring our progress on these initiatives.

Community Development Projects
The Division provided planning assistance to a number of Community development groups interested in developing infrastructure within their community and to Town Councils relating to access concerns and intersection realignment associated with proposed major commercial developments. Projects and proposed projects included:

- Wood Islands Development Project
- Montague Main Street Commercial Development
- Trans Canada Highway and Mason Road/ Tea Hill Intersection Preliminary Planning
- Cardigan Waterfront Development
- Charlottetown Transit Study

BUILDING DESIGN AND CONSTRUCTION

The Building Design and Construction Section is responsible for the design and preparation of tender documents required for the construction or renovation of various government and client buildings; as well as the supervision and inspection of construction work to ensure that contracts are completed in accordance with plans, specifications, and budget allocations. The design work is either performed by staff or private consultants engaged for a project and supervised by the staff; and includes the following:

- evaluation of existing buildings
- development of concept plans
- preparation of cost estimates
- preparation of working drawings and specifications required to obtain tenders, receipt of tenders and preparation of constructions contracts
- preparation of request for proposals covering required consultant services and evaluation of consultant services proposals.

Design work was completed and tenders were received during the year for the following projects:

Westisle Composite High School - Gym Floor Replacement - April 18, 2002

WM&M (1993) Ltd.	$189,867.00
Wellington Construction	$193,612.00
Schurman Construction	$208,400.00
MacLean Construction	$217,900.00
LynGor Developments Inc.	$257,908.00

Georgetown Elementary School - Roof Replacement - April 18, 2002

DRL Roofing Limited	$ 58,736.95
Atlantic Roofers	$ 67,775.00
Ashe Roofing	$ 78,400.00

Ecole Evangeline - Window Replacement - April 18, 2002

Star Construction	$ 84,800.00
MacLean Construction	$ 87,800.00
Wellington Construction	$ 88,300.00
G.I.A. Limited	$ 90,900.00
Double 'A' Carpentry	$ 95,500.00
LynGor Developments	$104,961.00

QEH - Cancer Treatment Centre - Site Work - April 25, 2002

Birt & MacKay	$311,345.00
Island Coastal Services	$329,000.00
Kings County Construction	$337,166.34
WM&M (1993) Limited	$344,000.00
Curran & Briggs	$351,950.00

Montague Consolidated School - Gym Floor Replacement - May 2,2002

WM&M (1993) Limited	$138,000.00
MacLean Construction	$143,800.00
Schurman Construction	$146,000.00

West Kent Elementary School - Window Replacement - Phase 2 - May 2, 2002

MacLean Construction	$136,900.00
WM&M (1993) Limited	$138,000.00
Schurman Construction	$142,500.00
Star Construction	$151,700.00
LynGor Developments	$169,350.00

Three Oaks School - PA System Upgrade - May 14, 2002

DBA Solar Electric	$ 67,900.00
Hansen Electric	$ 90,000.00
Noye Electric	$ 95,331.00
Ferro-Chemi-Crete	$120,548.00

Collaborative Care Centre - Renovations - May 14, 2002

Schurman Construction	$397,500.00
MacLean Construction	$420,500.00
Southern Kings Construction	$426,700.00
Fitzgerald and Snow	$432,700.00
WM&M (1993) Limited	$436,400.00
LynGor Developments	$558,220.00

Kinkora Regional High School - Addition & Renovations - May 17, 2002

Fitzgerald & Snow	$2,767,000.00
Schurman Construction	$2,888,300.00

Sherwood Elementary School - Gym Floor Replacement - May 30, 2002

Schurman Construction	$105,900.00
WM&M (1993) Limited	$107,600.00

Ellerslie Mechanical Upgrade - Ellerslie Elementary School - May 30, 2002

Entire Mechanical	$154,000.00
Brunswick Sheet Metal	$179,200.00
LynGor Developments	$314,865.00

Glen Stewart Elementary School - Partial Roof Replacement - June 13, 2002

Ashe Roofing	$18,800.00
DRL Roofing	$28,700.00
Atlantic Roofers	$33,800.00

Greenfield Elementary School - Gym Floor Refinishing - June 13, 2002

Schurman Construction	$55,000.00
WM&M (1993) Limited	$55,552.00
Wellington Construction	$63,941.00

West Prince French School - Site Preparation - June 18, 2002

Gaudette's Transit Mix	$ 7,810.00
Kildare Construction	$ 9,431.00

West Prince French School - Addition - June 18, 2002

GIA Limited	$72,600.00
Star Construction	$83,300.00

Prince Street Elementary - Partial Lighting & Roof Replacement - June 25, 2002

Schurman Construction	$59,800.00
WM&M (1993) Limited	$61,833.00
Gill Construction	$62,000.00
MacLean Construction	$67,000.00

QEH - Cancer Treatment Centre Expansion & MRI Addition - July 18, 2002

Opron Maritimes Construction	$3,893,000.
Schurman Construction	$3,912,000*
MacLean Construction	$3,940,000
Cardinal Construction	$4,026,000
Fitzgerald & Snow	$4,089,000
Walter Construction	$4,239,000

*Awarded to Schurman Construction

Eastern School District - Computer Labs Ventilation & Air Conditioning - July 18, 2002

J & S Sheet Metal	$59,900.00
Entire Mechanical	$68,852.00
Gavin Gill Construction	$92,160.00

Western School Board - Office Addition - July 18, 2002

Star Construction	$78,400.00
MacLean Construction	$82,800.00
WM&M (1993) Limited	$98,890.00

West Kent School - Partial Roof Replacement - August 1, 2002

Ashe Roofing	$33,700.00
Atlantic Roofers	$40,593.00
DRL Roofing Ltd.	$56,945.00
RDB Enterprises Ltd.	$59,876.00

Royalty Centre - Visual Arts Building - Learning Centre Relocation - August 6, 2002

WM&M (1993) Limited	$267,600.00
Schurman Construction	$286,900.00
Southern Kings Construction	$290,870.00
Gill Construction	$295,450.00
MacLean Construction	$296,500.00

Miscouche Consolidated School - Sitework - August 6, 2002

Island Coastal Services	$ 79,900.00
Curran & Briggs Ltd.	$ 80,227.85
Duffy Construction	$ 87,500.00
AJL Ltd.	$ 90,905.00

Eastern Kings Consolidated School - Partial Roof Replacement - August 6, 2002

Atlantic Roofers	$ 53,980.00
DRL Roofing Ltd.	$ 62,442.00
Ashe Roofing	$ 67,600.00
RDB Enterprises	$ 69,300.00

Beach Grove Home - Partial Roof Replacement - Phase 2 - August 22, 2002

Atlantic Roofers	$ 79,789.00
DRL Roofing Ltd.	$ 83,000.00
WM&M (1993) Limited	$ 91,645.00

Montague Regional High School - Mechanical Modifications - August 22, 2002

Entire Mechanical	$ 41,720.00

Eastern School District Computer Labs - Ventilation & Air Conditioning - Phase 2 - August 29, 2002

Entire Mechanical	$ 53,800.00

Prince County Courthouse - Elevator - September 5, 2002

WM&M (1993) Limited	$373,000.00
Schurman Construction	$381,200.00
Star Construction	$393,450.00
MacLean Construction	$394,300.00
LynGor Developments	$448,318.00

LCC Head Office - Floor Refinishing (Invited) - September 5, 2002

Tile Master Inc.	$ 10,840.00
Loyalist Marble & Tile	$ 14,850.00

Eastern School District Computer Labs (Cardigan & St. Jeans) - Dust Collectors - September 10, 2002

Southern Kings Construction	$ 66,490.00
Entire Mechanical	$ 85,880.00

Beechwood Family Health Centre - September 24, 2002

Star Construction	$314,500.00
Wellington Construction	$348,555.00

O'Leary Community Hospital - Long Term Care Addition - September 26, 2002

Schurman Construction	$1,037,800
WM&M (1993) Limited	$1,047,000
MacLean Construction	$1,054,500

Cavendish & Brackley Visitor Information Centres - Roof Replacement - October 2, 2002

DRL Roofing	$ 40,547.00
Ashe Roofing	$ 78,500.00

Souris Consolidated School - Partial Roof Replacement - October 8, 2002

Ashe Roofing	$ 45,600.00
Atlantic Roofers	$ 53,891.00
DRL Roofing	$ 58,792.00

Access PEI - Montague - Siding & Window Replacement - October 8, 2002

MacLean Construction	$ 87,037.00
Gill Construction	$ 89,000.00
Schurman Construction	$114,000.00
LynGor Developments	$134,446.00

Birchwood Intermediate School - Heating Boiler #2 Replacement - November 14, 2002

Ben Livingston & Sons	$ 44,995.00
Bevan Bros.	$ 51,000.00
Precision Mechanical	$ 53,800.00
Entire Mechanical	$ 55,600.00

Bloomfield Elementary School - Gymnasium Siding - November 14, 2002

Highfield Construction	$ 5,241.00
All Star Construction	$ 5,769.75
G.I.A. Ltd.	$ 6,390.00
Star Construction	$ 7,995.00

Queen St Liquor Store Renovations - March 6, 2003

MacLean Construction	$478,900.00
Gill Construction	$499,450.00
Schurman Construction	$507,200.00
Southern Kings Construction	$508,634.00
WM&M (1993) Limited	$518,000.00

Construction contract administration and inspections was provided for the project tendered during the year, as well as the following projects that had been tendered in previous years:

- Parkdale Elementary School - Gymnasium Addition
- Miscouche Consolidated School - Addition/Renovation
- Alma Highways Facility
- Royalty Center - Education Systems and Technology
- Crowbush Cove Clubhouse Renovations
- Wood Islands Liquor Store - Fit-up
- Westisle Composite High School - Gym Floor Replacement
- Georgetown Elementary School - Roof Replacement
- Ecole Evangeline - Window Replacement
- QEH - Cancer Treatment Centre - Site Work
- Montague Consolidated School - Gym Floor Replacement
- West Kent Elementary School - Window Replacement - Phase 2
- Three Oaks School - PA System Upgrade
- Collaborative Care Centre - Renovations
- Kinkora Regional High School - Addition & Renovations
- Sherwood Elementary School - Gym Floor Replacement
- Ellerslie Mechanical Upgrade - Ellerslie Elementary School
- Glen Stewart Elementary School - Partial Roof Replacement
- Greenfield Elementary School - Gym Floor Refinishing
- West Prince French School - Site Preparation
- West Prince French School - Addition
- Prince Street Elementary - Partial Lighting & Roof Replacement
- QEH - Cancer Treatment Centre Expansion & MRI Addition
- Eastern School District - Computer Labs Ventilation & Air Conditioning
- Western School Board - Office Addition
- West Kent School - Partial Roof Replacement
- Royalty Centre - Visual Arts Building - Learning Centre Relocation
- Miscouche Consolidated School - Sitework
- Eastern Kings Consolidated School - Partial Roof Replacement
- Beach Grove Home - Partial Roof Replacement - Phase 2
- Montague Regional High School - Mechanical Modifications
- Eastern School District Computer Labs - Ventilation & Air Conditioning - Phase 2
- Prince County Courthouse - Elevator
- LCC Head Office - Floor Refinishing (Invited)
- Eastern School District Computer Labs (Cardigan & St. Jeans) - Dust Collectors
- Beechwood Family Health Centre
- O'Leary Community Hospital - Long Term Care Addition
- Cavendish & Brackley Visitor Information Centres - Roof Replacement
- Souris Consolidated School - Partial Roof Replacement
- Access PEI - Montague - Siding & Window Replacement
- Birchwood Intermediate School - Heating Boiler #2 Replacement
- Bloomfield Elementary School - Gymnasium Siding
- Queen St Liquor Store Renovations

BUILDING MAINTENANCE AND ACCOMMODATIONS SECTION

The responsibility of the Building Maintenance and Accommodations Section is to provide quality services to all of Government in the areas of building operations, maintenance, and accommodations. The Operations and Maintenance section is responsible for the day to day operating and maintaining of Government buildings and systems. The responsibility of the Accommodations section is to administer the short and long term spatial requirements of Government Departments and Agencies housed within Government owned and/or leased facilities.

Operations and Maintenance Section Projects

Island Wide

- Implemented Waste Watch
- Shredding of all sensitive documents.

Prince County

Access PEI O'Leary and Vet Clinic

- Painted hallways
- New carpet in hallways
- Renovated file room
- New roof (Vet Clinic)
- New paint and flooring (Vet Clinic)

Alberton Courthouse

- New well to supply central water system installed by Department of Environment.

Borden Scale House

- New bolts on weigh bars
- New concrete floor (south side pit)
- New fans and wiring

Yeo House - Green Park

- New well
-

Lady Slipper VIC

- Installed new tile floors
- Interior painting
- New track lighting

Mt. Pleasant VIC

- Installed flagpole
- Installed ultra violet light for potable water
- Installed new well casing

Prince County Jail & Courthouse

- Interior painting
- New elevator

Tyne Valley Youth Center

- Installed new oil tanks

West Prince Forestry

- Painted exterior trim

Queen's County

Aubin Arsenaualt Building

- Set up new weather station

Beach Grove Warehouse

- Installed new roof

Brackley VIC

- Installed water fountain
- New roof (capital)

Cavendish VIC

- Installed protective rails
- New ultra violet light for potable water
- New roof (capital)

Coles Building

- Installed Air conditioning 1st and 4th floors
- Painted second floor.

Correctional Center - Sleepy Hollow

- Re-tubed boiler
- Shredder room set up
- Installed smoke eaters
- Installed shelving units

Customs House

- Refinished exterior doors
- Installed new expansion tank

Davies Law Courts

- Repairs to roof
- Pan installed under ventilation unit

Environmental Warehouse

- Installed new roof

Forestry -Queens

- Painted exterior

Government House

- Painted exterior of house
- Painted interior rooms

Jones Building

- Mechanical upgrade
- New pumps installed
- Air conditioning repairs
- Door security installed
- Renovations 1st floor east

Mona Wilson Building

- New fence around parking lot
- Renovated office space
- Painted sections of interior

Province House

- Renovated media room
- Roof repairs

Province House Annex

- New oil tanks
- Painted two floors.
- Installed new expansion tank

Shaw Building

- New flooring and renovated office space - 2nd floor
- Ventilation upgrade - 1st floor north

St. Paul's Rectory

- Installed main door security

Stone House VIC

- Painted interior
- Repairs to washrooms and heating system

Sullivan Building

- Elevator upgrade
- Office area renovations -1st , 3rd, & 5th floors

King's County

Georgetown Courthouse

- Installed new windows.

South Hampton Forestry

- Repairs to front entrance steps and installed new aluminium door.

Montague Office Complex

- New handicap parking area

Georgetown Youth Center

- Installed new pressure pump on sprinkler system.

Montague Access PEI

- Interior painting.

Orwell Corner Historic Village

- Installed 100 amp electrical service.
- Repairs to school house.

Morell Provincial Library

- Installed new data wiring to CAP site computers.

PROPERTIES SECTION

The Properties Section of the Department of Transportation and Public Works is responsible for the provision of all real estate services on behalf of all government departments in regards to the ownership of provincial properties. Examples of the types of real estate services that are commonly provided are as follows:

- Appraisals
- Acquisition
- Disposal
- Negotiations
- Marketing
- Leasing
- Property Management
- Expropriation
- Title Research
- Paralegal Services
- Consulting
- Building Demolition
- Public Tenders
- Public Relations

Real estate services are also provided to other government agencies such as the School Districts, Health Agencies, Energy Corporation, Island Waste Management Corporation, Liquor Control Commission, Museum and Heritage Foundation, Charlottetown Area Development Corporation, Holland College, Prince Edward Island Business Development Inc., Municipalities and other local Development Corporations formed to promote economic growth outside the larger municipal centres.

The Properties Section maintains a computer based filing system capable of tracking property inventory, lease renewals, rental payments, properties acquired, sold and leased, production of reports pertaining to provincial land inventory and recording of requests received regarding provincial lands.

Staff members participate on various government committees, including the Land Use Coordinating Committee, Provincial Land Review Subcommittee, Natural Areas Protection Act Technical Advisory Committee, Resource Land Acquisition Fund Committee and the Rail Land Review Committee.

As of March 31, 2003 there were approximately 1900 properties (125,000 acres) held in provincial ownership and under the management of various government departments.

The Section over the past six years received, on an annual basis, an average of 648 requests related to provincial property matters.

CAPITAL PROJECTS

CHIEF ENGINEER'S REPORT

The Capital Projects Division is responsible for the design, construction, and reconstruction of the Province's highways and bridges. This includes the associated tasks of data collection, surveying, mapping, materials testing, traffic engineering, and bridge maintenance. The responsibilities for construction, reconstruction, subdivision development, and traffic engineering come under the direction of three Regional Engineers. The main offices for the Eastern, Central, and Western Regions are in Georgetown, Charlottetown, and Summerside respectively. The Western Region also has a field office in Alma.

In 2002, the Traffic Operations in the three regions were managed by two Traffic Operations Managers, one working out of both Georgetown and Charlottetown, and one working out of Summerside and responsible for the Provincial Sign Shop in Tignish.

The design of Highways and Bridges is managed from the Charlottetown office, as is the project management of bridge construction and the maintenance of the bridges. The structural highway design and testing of construction materials is managed from the Highway Testing Laboratory in Mt. Stewart, with additional testing facilities in Summerside.

The Charlottetown Office is also the work place for the Occupational Health & Safety Manager, the Special Projects Engineer, and staff in Pavement Management, the Geographic Information System for Transportation, the Chief Surveyors Office, and the Chief Engineer's office.

The staff of the Capital Projects Division was impacted significantly by the Voluntary Retirement Program, with eleven Employees electing to retire, two others accepting temporary assignments in other divisions, and two more leaving for another Department. No new staff were hired to replace them.

Capital highway expenditures administered by this division decreased significantly in this fiscal year compared with other years. The total capital highway expenditures for 2002 were $15,497,797. Previous years were approximately $20,000,000.

The Province and the Federal Government agreed to cost share the reconstruction of Route 313 in Greenwich, to improve the highway between St. Peters and the new portion of the PEI National Park. This project was substantially completed in 2002 with expenditures of $1,975,444, which were cost shared on a equal basis between the two governments.

In 2002 the Province and the Federal Government signed an agreement for the Strategic Highway Infrastructure Program (SHIP). This program will cover the expenditure of $11,600,000 on the National Highway System within PEI to be cost shared equally over the next 5 years. Transport Canada administers both the Greenwich and the SHIP agreements for the Federal Government

Detailed information relating to the Capital Projects Division is included in the following pages.

SCHEDULE OF TENDERS FOR STRATEGIC HIGHWAY INFRASTRUCTURE PROGRAM

Trans Canada Highway - Cornwall

Tender Opened August 29, 2002

Island Construction Ltd.	$315,532.00
Chapman Bros. Construction Ltd.	334,744.50
Curran & Briggs Ltd.	328,678.60
Island Coastal Services Inc.	322,808.50

Awarded to Island Construction Ltd.

Riverside Drive-Park Street Intersection

Tender Opened July 30, 2002

Birt & MacKay Backhoeing Ltd.	$564,269.36
Island Coastal Services Inc.	574,380.50
Curran & Briggs Ltd.	671,074.35
Island Excavators "1985" Ltd.	618,721.06

Awarded to Birt & MacKay Backhoeing Ltd.

HIGHWAY LIGHTING TENDERS

Albany Interchange

Maintenance
Tender Opened March 14, 2002

Strait Crossing Bridge Ltd.	$ 3,000.00
Don MacLeod Electric	3,575.04

Awarded to Strait Crossing Bridge Ltd.

Kings County - Various Locations

Maintenance
Tender Opened March 14, 2002

Foster Campbell Electric	$ 5,754.00

Awarded to Foster Campbell Electric

Queens County - Various Locations

Maintenance
Tender Opened March 14, 2002

Chas M. Stewart Electric	$ 16,095.00
Don MacLeod Electric	16,599.96

Awarded to Chas M. Stewart Electric

Prince County - Various Locations

Maintenance
Tender Opened March 14, 2002

Don MacLeod Electric	$ 13,376.00

Awarded to Don MacLeod Electric

Hillsborough Bridge

Maintenance
Tender Opened March 24, 2002

Chas M. Electric ..... $ 5,670.00

Awarded to Chas M. Electric

FEDERAL COST SHARED PROJECT - GREENWICH

	Km's	Grade	Gravel Base	Asphalt RAP	Asphalt Leveling	Asphalt Base	Asphalt Seal	Reconstruction
Greenwich Road - Route 16	9.9	5.3	5.3	3.9	4.6	5.3	9.9	4.1

STRATEGIC HIGHWAY INFRASTRUCTURE PROGRAM (SHIP)

	Km's	Grade	Gravel Base	Asphalt RAP	Asphalt Leveling	Asphalt Base	Asphalt Seal	Reconstruction
Riverside Drive/Park Street	0.46	0.46	0.46	0.0	0.0	0.46	0.46	0.46
Park Street	0.35	0.35	0.35	0.0	0.0	0.35	0.35	0.35 (new pavement)
Cornwall Intersection	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0
Lowther Drive	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Kellow Drive	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0
John Street	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0
Pinette Sluiceway - Design Consultant's Contract and Study								

HIGHWAYS AND BRIDGES

Eastern Region

	Km's	Grade	Gravel Base	Asphalt RAP	Asphalt Leveling	Asphalt Base	Asphalt Seal	Reconstruction
Route 2 - St. Peter's Rd., Morell	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Route 4 - Poole's Corner to Belles Hill	1.6	0.6	0.6	0.6	0.0	0.6	1.2	0.0
Shopper's Drug Mart Access - Montague	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1 (new pavement)

Route 17 - Sturgeon Bridge*	0.4	0.3	0.3	0.0	0.0	0.3	0.4	0.4
Murray River Bridge	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Murray River Golf Course Entrance	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Totals	**3.8**	**1.0**	**1.0**	**0.6**	**0.0**	**1.0**	**3.4**	**0.5**

* New 44 mm concrete bridge

Central Region

	Km's	Grade	Gravel Base	Asphalt RAP	Asphalt Leveling	Asphalt Base	Asphalt Seal	Reconstruction
Route 4 - Shore Rd. Wood Islands	0.34	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Mason Road - Stratford	0.25	0.25	0.25	0.0	0.0	0.25	0.25	0.0
TCH - Riverside Drive	0.55	0.55	0.55	0.0	0.0	0.55	0.55	0.0
Murchison Lane	0.18	0.18	0.18	0.0	0.0	0.18	0.18	0.18
Murchison Lane Extension	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0
QEH Entrance & Loop	0.38	0.0	0.0	0.0	0.0	0.38	0.38	0.0
Route 2 - Springfield	1.19	0.88	0.88	0.0	0.0	1.19	1.19	0.88
Route 2 - Springvale	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9
Route 246 - Dixon Road (RAP)	1.6	1.6	0.0	1.6	0.0	0.0	1.6	1.6 (new pavement)
Route 231 - Inkerman (RAP)	1.6	1.6	0.0	1.6	0.0	0.0	1.6	0.0
Hilltop Road (RAP)	0.3	0.3	0.0	0.3	0.0	0.0	0.0	0.3
Route 9 - Colville Road	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5
Route 19 - Argyle Shore Road	0.06	0.06	0.06	0.0	0.0	0.06	0.06	0.06
IWMC Entrance	1.36	1.16	1.16	0.0	0.0	1.36	1.36	1.16 (new pavement)
Art Ford Cross Road (RAP)	0.25	0.0	0.0	0.25	0.0	0.0	0.0	0.25 (RAP)

Route 256 - Crabbe Road	0.7	0.7	0.0	0.7	0.0	0.0	0.7	0.7 (RAP)
Old New London Road	1.22	1.22	1.22	0.0	0.0	1.22	1.22	1.22
Totals	**12.38**	**9.9**	**5.7**	**4.45**	**1.34**	**6.93**	**11.83**	**7.75**

Related Capital Projects:

1. Route 3 & 24 - Vernon River: Purchase of property to improve sight distance at intersection.
2. Mason Road, Stratford: Construct storm sewer to allow the Town to install sidewalks.
3. Kinlock Road Extension, TCH: Intersection widening and improvement.
4. Stratford: Grant to assist Town with storm water management study.
5. Route 351, Mt. Stewart: Assistance to Community for maintenance of Route 351.

Related Capital Projects (cont'd):

6. Mt. Stewart, Rails to Trails: Replacement of bridge on the Confederation Trail.
7. Route 25, Bay Shore Road, Stanhope: Shoreline protection adjacent to Route 25.
8. Riverside Drive, TCH: Intersection widening and improvement.
9. Route 2, Malpeque Road: To erect a guardrail to address safety concerns.
10. Upton Road, West Royalty Industrial Park: Improvements to access to Industrial Park.
11. Lowther Drive, Cornwall: Cost-share of extension of sub division road.
12. Cornwall: Grant to assist Town with storm water management.\
13. Route 254, Morris Bridge: Repair to bridge structure.
14. Campbell's Road: Design Consultants.

Western Region

	Km's	Grade	Gravel Base	Asphalt RAP	Asphalt Leveling	Asphalt Base	Asphalt Seal	Reconstruction
TCH - McCain's Turning Lane	0.6	0.5	0.5	0.0	0.0	0.5	0.6	0.0
Route 2, Norboro	1.6	0.7	0.7	0.0	0.9	1.6	1.6	0.7
Train Station Road	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
O'Halloran Road	0.7	0.7	0.7	0.0	0.0	0.7	0.7	0.0
O'Leary Intersection Extension	0.6	0.3	0.3	0.0	0.0	0.3	0.6	0.6
Bloomfield Industrial Park	0.3	0.3	0.3	0.0	0.0	0.3	0.0	0.3 (new pavement)
Alberton Main Street	0.25	0.25	0.25	0.0	0.0	0.25	0.25	0.0
Totals	**12.38**	**9.9**	**5.7**	**4.45**	**1.34**	**6.93**	**11.83**	**7.75**

Related Capital Projects:

1. Borden Avenue, Borden: Widen shoulder.
2. Dickie Road: Extend rails to trails along Dickie Road to intersection of TCH and Borden Ave.
3. Alberton: Install storm sewer to improve stream drainage.
4. Tignish Shore: Install Rip Rap to protect the shoreline.

DESIGN SECTION

The Design Section provided detailed design, drawings or alignments for 42 highway related projects during the fiscal year. All incoming electronic survey data provided by the Department's Survey Section were reduced and verified for accuracy prior to preparing further design work.

Detailed design work was carried out for the following highway construction projects:

Route Number	Area of Design Work Completed
Route 1 - Trans Canada Highway	Riverside Drive - Park Street Relocation Queen Elizabeth Hospital Entrance Kellow Drive Intersection, Cornwall (TCH) Pinette Bridge Approached Gateway Village Entrance Borden Avenue Albany to Borden Crapaud to Tryon
Route 2	St. Peters Blue Shank Road to County Line Road Glovers Lane Entrance, Kensington Slemon Park Road Northam Kensington to New Annan Dingwell's Mills to Fortune Bay Westisle High School Turning Lane St. Peter's Road, East Royalty
Route 3	Poole's Corner to Georgetown
Route 6	Cavendish Boardwalk
Route 8	Freetown to Summerside
Route 12	North Cape
Route 16	Souris Main Street Storm Sewer
Route 25	Bayshore Road, Stanhope
Route 152	Montrose
Route 159	Peter's Road, Peterville
Route 171	Central Bedeque
Route 310	Bay Fortune Fortune Bridge Intersection with Route 340

BRIDGES

The following bridges were designed and work carried out by either the Design Section or by Consultants:

Bridge	Work Completed
Pinette Bridge (TCH)	Detailed design (consultant)
Oak Driver Underpass (TCH)	Investigation of damaged girder
Midgell Bridge, Route 2	Investigation
Millview Arch, Route 3	Investigation
Sturgeon Bridge, Route 17	Replacement
Elliot's Bridge, Route 254	Investigation
Campbell's Road, New Glasgow	Investigation & detailed design

BRIDGE MAINTENANCE

The Bridge Maintenance Section is responsible for the ongoing maintenance of approximately 1,300 structures across Prince Edward Island. There are several types of structures within the bridge inventory.

- Multi Plated Steel Arches
- Timber Boxes
- Concrete Bridge/Timber Extensions
- Sectional Concrete Boxes
- Steel Sheet Piling Bridges
- Timber Pile Bridges
- Steel Pile Bridges
- Corrugated Steel Pipes
- Timber Crib Bridges
- Timber Catch Basins
- Timber Driveway Boxes
- Concrete Span Bridges
- Steel Span Bridges
-

The objective of this Section is to provide a comprehensive program of bridge inspection, evaluation and maintenance that serves the needs of the Department and the Province. Bridge Maintenance is comprised of several components.

- Structural Inspection Crew. The crew operates on a 3 year schedule rotating between the 3 Counties inspecting approximately 400-500 structures each season.
- Bridge Yard Inventory Crew. Responsible for inventory control for the materials being sent to the various projects across the Island.
- Boom Truck. Responsible for transporting the construction materials to the Maintenance crews.
- Construction crews. Five crews are responsible for the yearly maintenance work carried out by the Bridge Section.
- Administrative staff.
- Bridge Management. Duties include overseeing and organizing the schedules of the Bridge Maintenance staff.

In addition to the goals of ensuring the integrity of structures, the Bridge Maintenance Section assists other agencies in achieving their objectives by improving fish passages by installing baffles within structures, protection of stream banks by the placement of gabion baskets and the creation of fish habitat by installing natural bottoms in some of the structures.

MATERIALS AND SOILS SECTION

Asphalt

A total of eight plants were engaged in the production of asphaltic concrete. All of the mix was produced from drum mix plants. A total of 167,633 tonnes of asphaltic concrete was produced. This included binder course, surface course, levelling course and maintenance mixes. A price adjusted, end result specification was applied to hot mix compaction on specified contracts.

Daily inspection was carried out at each of the eight plants to control the quality of the mix produced. A total of 499 asphalt mix samples were collected and analysed for compliance with department specifications. This resulted in a testing frequency of one test for every 336 tonnes of asphalt mix produced. A total of 439 cores were removed from the contracts to determine compliance with compaction and thickness requirements.

The use of local aggregates was limited to blend sands. The type and amount of testing carried out to ensure the quality of the aggregates is noted below:

Test Type	Number of Tests
Sieve Analysis	465
Specific Gravity	81
Soundness	21
Abrasion	6
Petrographic Number	7
Crush Count	8
Sand Equivalent	6
Flat & Elongated Particles	8
Micro-Deval	12

In addition, 11 Marshall and Superpave mix designs were carried out to determine aggregate proportions and optimum asphalt cement contents.

Asphalt cement specification compliance testing was performed on performance grade 58-28 asphalt cement. A total of 30 samples were taken.

Test Type	Number of Tests
Specific Gravity	15
Kinematic Viscosity	15
Penetration	15

Soils and Granular

Soils testing dealt mainly with granular base course, and select borrow. Tests carried out on these materials included sieve analysis, moisture-density relationship, specific gravity, and degree of compaction. A total of 299 samples were processed during the year.

Test Type	Number of Tests
Sieve Analysis	376
Moisture-Density	35
Compaction	882
Specific Gravity	15

Ice Control

Materials Lab staff provided inspection and testing services for the production of winter sand used by the Maintenance Division for ice control. The services included calibration of sand blenders, on site monitoring and production sampling from both the blenders and from stockpiles. A total of 538 samples were processed for gradation testing.

Subsurface Investigation

The continued use of the Lab's mobile drilling unit permitted comprehensive subgrade investigations to be carried out. A total of 1076 samples were obtained from 40 different contracts. Gradation analysis and in situ moisture contents were determined for all samples. In addition, 110 atterberg limit tests, 94 hydrometer analysis and 155 organic indicator tests were performed.

Concrete

Testing and inspection services were provided for the following projects:

IWMC - Elamsdale
TCH - Kinlock
Cornwall Intersection
Ducks Unlimited
Murray River Bridge (Sidewalks)
Bell's Hill (MacDonald Road to Poole's Corner)
IWMC Entrance - Brookfield
Greenwich
Montague
IWMC- Dingwells Mills
IWMC - New London
Park St./Riverside Drive
Mt. Stewart Spillway
Sturgeon Bridge Replacement

A total of 232 concrete test cylinders were tested for compressive strength. In addition 170 slump tests and 165 air content tests were performed.

Benkelman Beam

The deflection testing program continued to provide information for overlay thickness design and the spring weight restriction program.

Profilograph
A price adjusted smoothness specification was implemented on reconstruction contracts.

EASTERN & CENTRAL REGION TRAFFIC OPERATIONS

Highway Signage
Installation and maintenance of highway signs was carried out by a sign crew based out of Souris, and two and a half crews based out of Charlottetown. In addition to highway signs, the crews were responsible for the installation and maintenance of the Highway Information Signage System, 911 signage, as well as signing detours and some construction signage. The problem with Halloween damage appears to have diminished over the years, although there are instances of isolated vandalism and theft of signs.

Highway Information Signs
Administration of the Highway Information Signage System was carried out by the Department of Development and Tourism. Sign orders were passed on to the Provincial Sign Shop in Tignish and, after manufacture, were installed by the regional sign crews. There were 76 new signs manufactured for new clients and 106 signs that were damaged or faded were replaced. There were 84 signs removed for clients who are no longer in the Program. There were 305 old sign blanks chemically stripped for re-use.

Highway Marking
Centerline marking was applied to approximately 1,200 kilometres of existing highway by the centerline striping machine based out of Charlottetown. In addition to this, 55 kilometres of new construction was pre-marked and painted. Shoulder lines and lane lines were applied to 152 kilometres of arterial highway. Edge lines were painted on approximately 36 kilometres of arterial highway and 80 kilometres of collector highways.

Intersections in the region were re-painted by the intersection marking crews, based out of Kings and Queens Counties.

Highway Lighting
Maintenance of highway lighting was carried out by Stewart Electric in Queens County and by Foster Campbell Electric Ltd. in Kings County.

Area lighting was improved by adding 180 watt, Low Pressure Sodium lights at the intersection of Riverside Drive and Park Street and Riverside Drive and the Queen Elizabeth Hospital entrance. Traffic signals were installed on Riverside Drive at the new entrance to the Queen Elizabeth Hospital and the intersection of the Trans Canada Highway and John Street in Cornwall. The traffic signals at the intersection of Main Street and Queens Road in Montague were upgraded to an eight-phase operation. Traffic signal heads were installed with LED fixtures at new signalized intersections.

Flashing beacons and lighted barricades were used for detours and in advance of some major highway construction projects.

Access Control
Applications for entrance way permits on arterial and seasonal highways were processed as well as stopping sight distance assessments for new dwellings and commercial operations. Fees were collected for installation of new entrance ways for new dwellings and agricultural use.

WESTERN REGION TRAFFIC OPERATIONS

Highway Signage
One and a half crews erected and maintained signage throughout the region, including directional signs, community signs, scenic route signs, street name signs, warning signs, 911 road name signs and regulatory signs. In addition to this, crews continued to erect and maintain detours for highway construction sites. The sign crews continued to erect and maintain the Highway Information Signage System standards and signs.

Highway Marking
The three Counties continue to share the use of the centerline striping truck and the truck which paints the shoulder lines. Centerline marking was applied to approximately 800 kilometres of existing highway, 30 kilometres of asphalt resurfacing, and 6 kilometres of new construction. Shoulder lines or edge lines were painted on approximately 140 kilometres of highway in the region.

Highway Lighting
Maintenance of highway lighting was carried out by Don MacLeod in Prince County and Strait Crossing Ltd. for Albany Interchange and Borden Scale House. Area lighting was improved with four, 180 watt low pressure sodium lights on Trans Canada Highway at the new intersection at McCain's Plant in Albany. Traffic loops were installed at the intersection on Route 2 and 142 in Woodstock.

Highway Access Control
There were ten applications for access to the arterial highways that were evaluated for entrance way permits. In addition to this, eighty requests from Community and Cultural Affairs for access control for subdivisions or building permits and ninety-two entrance-way fees were collected and evaluated.

PROVINCIAL SIGN SHOP

The Sign Shop continued to produce highway signs for the Province. Staff at the Sign Shop consists of two full-time, permanent employees and one eight-month, permanent employee. One to three casuals is hired as needed throughout the year.

One major equipment purchase during the year was a 24" Summa Plotter for graphics and letter cutting.

The following is a breakdown of the signs produced:

Sign Type	Prince	Queens	Kings
Directional	62	71	123
Regulation & Warning	1611	21	172
Route Assemblies	163	247	194
Community	31	26	70
Wooden Street Signage	58	41	139
Aluminum Street Signage	9	--	--
Construction	176	--	--
HISS	112	126	144
Private Road Names (911)	61	118	242
Road Names (911)	210	102	242
TOTAL	**2493**	**752**	**2241**

Other Signage	Province-wide
Signs sent to Charlottetown stock	2990
Construction signs sent to Charlottetown stock	817
Specialty signs within Transportation	310
Signs made for other Departments	786
Signs made for Municipalities	246
Silkscreen (other companies)	42
Construction (other companies)	338
Metal Delineators for Transportation	1280
Responding to Community Needs Boards	2
Rails-to-Trails Project Signs	765
Rails-to-Trails Delineators	1850
Employee Name Plates	43
Veterans Memorial Highway Signs	6
Prince County	2493
Queens County	752
Kings County	2241
TOTAL	**14,961**

PAVEMENT MANAGEMENT SECTION

The Pavement Management Section is responsible for a number of data collection and analysis systems for the Department. The Section continues to manage the ITMS (Integrated Traffic Monitoring System), WIM (Weigh-In-Motion information system), data collection and site maintenance for SHRP asphalt research (both Canadian and the US projects) and the pavement management system named PCMS (Pavement Condition Monitoring System).

Integrated Traffic Monitoring System

This year was the second complete year of data processing for the Department's upgraded ITMS. The annual data backup and retrieval did not function automatically. However, the manual process functioned correctly when carried out by the system development consultants.

Four employees were hired for the summer to carry out the Intersection Turning Movement Count program. This manual traffic survey is carried out for 10 hours a day, 4 days a week. The data is manually keyed to ITMS, stored and available for analysis as an intersection (or other traffic facility) design tool. The Department has been carrying out this type of traffic survey since the early '70s. Working in two person and sometimes four person crews, almost 80 intersections were surveyed.

The Section maintains and analyses data from 12 permanent count sites, and 125 temporary count sites. There are 43 sites where vehicle classification is carried out 6 days a year, and 5 Weigh-In-Motion sites, along with various numbers of turning movement surveys. The data from all these monitoring sites continues to feed the ITMS and creates a master traffic profile for multiple sections of all provincially numbered highways.

Weigh In Motion System - WIM

Vehicle weights, speed and type continued to be collected at the 5 WIM monitoring sites. These 5 sites are all located on the arterial highway system. Little field maintenance was required this year as major rehabilitation work had been carried out the year before. The Section used a full time casual position to edit field data and carry out initial quality control before loading the information to the system databases.

The attention applied to this data by the technical staff revealed that there are still significant field problems at two of the five sites. Calibration exercises at the WIM sites were not carried out during the year.

Strategic Highway Research Projects - SHRP

The Department continues to participate in C-SHRP (Canadian-Strategic Highway Research Project), as well as the US-SHRP (United States-Strategic Highway Research Project) both being parts of Transportation Association of Canada's Long Term Pavement Performance Study research projects. Data was not collected during the year due to the highway section being listed for reconstruction. The reconstruction did not take place before the end of the construction season, therefore, the section will be tested next year with the missing annual data being noted.

Pavement Condition Monitoring System - PCMS

Information from this system relates pavement condition and usage to develop a relative database - a sorted list, to assist the Department in carrying out it's annual capital planning projects. This information is used as a primary input for the construction section to develop the following year's capital paving program. The information is collected and compiled manually and loaded into a spreadsheet processor for analysis.

PCMS does not collect data for all roads. Data is collected annually or semi-annually for the arterial highway system and a subset of the collector class highways.

Provincial Highway Traffic Growth

The table below shows permanent count sites and the respective Annual Average Daily Traffic (AADT). These sites are used to calculate the provincial traffic growth rate.

The provincial traffic growth rate shows a marginal increase of + 0.8% for year 2002, based on 2001 traffic.

Annual Average Daily Traffic Table

Monitoring Sites	2001	2002	% Change	Notes
Tryon	4,292	4,397	2.4	
North River	20,556	21,299	3.5	
Hillsborough Bridge	31,322	30,065	-4.0	1
Cherry Valley	6,824	7,005	2.6	
Marie	2,723	2,653	-2.6	
Pleasant Valley	4,816	4,910	1.9	
Richmond	5,071	5,136	1.3	

Cavendish	1,577	1,846	17.1	2
Milton	1,764	1,895	2.3	
O'Leary	1,547	1,537	-0.7	
Confederation Bridge	4,184	4,244	1.4	
Albany	4,041	4,059	0.5	

Average % change without Cavendish site - +0.8%

Note 1: Hillsborough Bridge - highway section from Riverside Drive to Sherbury exit (Route 21) is the first section of highway in the Province to realize over 1 million vehicles in a one month span - July 2001.

Note 2: The permanent counter at Cavendish was not operating during June and July 2001 due to road construction. The AADT for that site for 2000 was 1,846 - the same as the 2002 AADT.

MAPPING AND GEOGRAPHIC INFORMATION SYSTEM - TRANSPORTATION (GIS-T)

The Mapping and GIS-T Section was involved in a number of on-going and new initiatives.

The GPS (global positioning system) field work that had begun in 2001 to collect co-ordinate and distance data for the roadway inventory project was completed this year. All roads within the Provincial jurisdiction have now been driven, mapped and measured. Two additional GPS field mapping projects were also completed this year. In the first project, all features along the Confederation Trail were mapped, measured and categorized using GPS and DMI (distance measuring instrument) equipment. Features included all road crossings and access points; bridge and drainage structures; gates, signs and shelters. The second project was an expanded inventory of the arterial highways where extra elements such as access points, passing zones and shoulder width were mapped and measured.

All field data was quality checked, standardized and enhanced with additional information before being formatted and printed into various reports. These three field mapping projects will provide much of the core data that will been incorporated into inventory and GIS databases.

The Department continued to be involved with the federally sponsored NRN (national road network) project. A regional workshop was attended where E-911, data maintenance and data distribution issues where addressed. The preliminary version of the NRN for PEI was released in January.

As part of the Corporate Land Use Inventory Project, two additional GIS datasets were made available to the Department this year - digital orthophotography and land use inventory mapping. Both datasets have become valuable references and have been extensively used throughout the Department.

CHIEF SURVEYOR

This Section provides counsel on legal and technical aspects related to land surveying, and maintains a close working relationship with the Properties, Highways, Building Design and Construction Sections of the Department. Expertise and services are also provided to other Departments, including Forestry, Fish and Wildlife, Legal and Judicial Services, Parks, School Boards, community groups, as well as the greater legal, engineering and land surveying community throughout the province. The following are the essential functions of the Section:

- provide timely, comprehensive and efficient land and engineering surveying services on public roads and provincial lands;

- provide counsel and regulate surveys completed under the *Condominium Act*, *Natural Gas Act* or *Mineral Resources Act*;

- collect evidence and provide counsel on the legal nature (public or private) of particular roads, rights-of-way and public easements in the Province;

- maintain and manage the provincial control survey networks and provide technical assistance to various GPS/GIS users on the provincial datum and mapping plane;

- maintain a library of documentary evidence and case law related to land surveying in Prince Edward Island and other provinces;

- Coordinate survey training sessions and develop standards for engineering and legal surveying crews within the Department, as well as coordinate and implement quality control standards for the collection of engineering surveying data to ensure accuracy and reliance sufficient to exceed high engineering design standards, and;

- provide a mechanism for the equitable resolution of boundary uncertainties.

To help complete these various tasks, staff consists of the chief surveyor, a senior survey technician, a survey/research technician, part-time researchers, two survey crews consisting of a crew chief and two technicians. All staff is specially trained in the collection of boundary evidence and common law concepts related to land surveying.

Boundary and engineering surveys were carried out on various government projects. Some notable survey projects included the highway realignments at Pinette, Belfast, St. Peter & St. Paul, Milton, Reads Corner, Northam, Searletown, Murray River, St. Peter's, East Royalty, Bells Hill, as well as several other construction initiatives undertaken by the Department.

Disputed public roads consumed a major portion of resources. Often at issue were shore access roads barred from public use by an adjacent land owner. Discovering evidence to substantiate a public road can often be difficult as mediating access issues with adjoining land owners and the public at large.

Survey monument maintenance included the precise geodetic measurement of 62 new stations in the Cornwall and Stratford areas. Observations and adjustments were completed by a private contractor and coordinate values for these stations are now available. Approximately 78 new stations in the network remain to be observed, which will continue in the next year.

Optex Inc. was retained to develop a software interface that integrates various coordinate transformation models and subroutines for use in the transformation of coordinate datasets to and from MAD27, ATS77 and NAD83. This user friendly interface, similar to NBGeocalc is now available to the general public in CD format for a fee and is an example of the expertise shared between the Maritime Provinces.

This Section also studied various boundary dispute resolution mechanisms across Canada and is currently proposing legislative changes to strengthen existing sections of the *Land Survey Act* and expand on a process for the equitable resolution of boundary uncertainties. Two uncertain boundaries have been referred to the Section for a determination. These two cases are on hold pending proposed legislative changes.

OCCUPATIONAL HEALTH & SAFETY

The Department continues to invest in education and training programs to help its employees avoid accidents and workplace injuries. New training programs have been developed and delivered in the following areas:

- Job Hazard Analysis
- Supervisory Skills and Responsibilities
- Temporary Workplace Traffic Control
- Workplace Inspections

Other programs continue to be delivered to new staff and refresher sessions for returning seasonal staff, including:

- Basic Safety Training and Awareness
- Heavy Equipment Operations and Safety
- Due Diligence
- WHMIS
- Heat Stress
- Health and Safety Committees
- Young Worker Safety

Over 700 employees received continuing education in various aspects of workplace health and safety. In addition, a number of personnel completed the Train-the-Trainer programs for heavy equipment operators, which is additional in-house training for employees. Other major areas of investment in employee safety included personal protective equipment workplace inspections and equipment upgrades.

All traffic control persons employed by the Department are required to wear reflective armbands. This increases visibility of the worker and provides the motoring public earlier warning of workers in the right-of-way. Additional high visibility CSA Class II vests were used by maintenance and construction staff.

Upgrades to various equipment and procedures at the Government Garage, combined with thorough workplace inspections have improved indoor air quality, reduced noise levels and intensity, and have made the workplace and storage yards safer. Also, the work of the many Joint Occupational Health and Safety Committee members continues to have a tremendous and positive impact in improving safety in the workplace.

These investments and the commitment and dedication of all staff are ensuring a healthy and safe workplace. The number of injuries has dropped significantly in the last four years, and the costs associated with lost time due to injuries have dropped by over seventy-five percent since 1999.

HIGHWAY MAINTENANCE DIVISION

The Highway Maintenance Division provides a full range of operations and maintenance services on the entire provincial highway system. The Division is organized by function into the following sections and work units:

- Provincial Headquarters
  - Central management functions, program development, budgeting, inventory control, bulk purchasing and contract preparation.
  - Technical services relating to standardized policy and procedure for work crews, as well as staff training and development.

- Highway Maintenance - Kings, Queens and Prince County Regional Operations
  - Maintenance and management of all provincially owned roads across the Province.
  - Services include: pavement surface maintenance, roadside maintenance, drainage and storm water, unpaved roads, dust control, snow and ice control. (Maintenance of bridges, signage, pavement marking and traffic control devices is provided by other divisions of the Department).

- Mechanical Branch - Kings, Queens and Prince County Regional Facilities
  - Supply, maintenance and general management of a large fleet of heavy equipment and light vehicles used directly to execute the work programs delivered by the respective County operations.
  - Provision of skilled operators and equipment operations.

Corrugated Steel Pipe

The value of corrugated steel pipe purchased by the Department for its maintenance projects was as follows:

Plants	Value
Maritime Steel	$262,577.00
Campbells Concrete	116,283.00
Atlantic Hy-Span	23,224.00
Total	**$402,084.00**

Maritime Steel, Campbells Concrete, and Atlantic Hy-Span agreed to supply corrugated steel pipe under the current conditions of the tenders negotiated from 2000. The following was purchased by the Highway Maintenance Division:

Diameter	Linear Feet
300 MM	1,034
400 MM	4,366
450 MM	294
500 MM	5,558
600 MM	4,575
800 MM	500
900 MM	840
1200 MM	200
Total	**17,367**

Used Corrugated Steel Pipe

Although the Department continues to re-use some culverts to bridge various woodlots, farm and private home entrance ways. The availability of used pipe in acceptable condition for resale or reuse has been limited due to the use of polyethylene pipe, and the City of Charlottetown undertaking their own culvert installations and replacements.

Polyethylene Drainage Pipe

The Department tendered and purchased polyethylene drainage pipe which was installed in various locations throughout the Province. The Department continues to monitor these installations to determine the feasibility of using this product. The Department is now into its third year of using polyethylene pipe and all reports indicate the product is extremely favourable based on cost, ease of handling, and durability.

Vendor	Value
Armtec Ltd.	$71,509.90

The following drainage pipe was tendered by the Highway Maintenance Division

Diameter	Each	Lin Ft.
300 MM Polyethylene		2,800
300 MM Polyethylene Couplers	100	
375 MM Polyethylene		6,500
375 MM Polyethylene Couplers	225	
450 MM Polyethylene		2,000
450 MM Polyethylene Couplers	10	
600 MM Polyethylene		2,000
600 MM Polyethylene Couplers	100	
Total	**435**	**13,300**

The following was purchased from Campbells Concrete prior to the tender (included in their total).

Diameter	Lin Ft.	Cost
300 MM Polyethylene	696	$6,007.20
375 MM Polyethylene	1,564	15,292.70
450 MM Polyethylene	360	4,608.50
750 MM Polyethylene	80	2,204.50
900 MM Polyethylene	260	8,179.60
Totals	**2,960**	**$36,292.50**

Hydro Seeding Report

The Department's hydro seeding crew continued to provide service to both the Highway Maintenance and Capital Projects Divisions. Where possible, materials, labour, and equipment utilized were internally invoiced back to Capital projects. As in previous years, this crew attempts to operate on a cost recovery basis. Total area seeded was 110,495 m^2.

Hydro seeding materials tendered during the 2003 season included:

Grass Seed	6.25 tonnes
Limestone	140 tonnes
Fertilizer	30 tonnes
Rye	m^2
Seed oats	tonnes
Erosion control blanket	5000 m^2
Organic wood/cellulose mulch	8 tonnes

The following is a breakdown of the Hydro Seed account:

	Collected	Paid Out
Equipment Rental		19,000.00
Professional Services		1,395.89
Field Supplies		20,911.73
In-Province Travel		8,486.57
EI		1,839.53
CPP		2,029.89
Wages		60,114.58
Journal Vouchers (Capital)	$86,515.75	
Totals	**$86,515.75**	**$113,778.19**

EASTERN REGION: SUMMER MAINTENANCE

Hot mix asphalt for patching crews was available from the first week in June to the second week in November. A total of 28,674 tonnes was used by the Branch for repairing the Province's paved road network and was financed from the pavement maintenance budget. Hand patching crews spread 3,827 tonnes. There was a total of 12,326 tonnes of asphalt spread by Department equipment and personnel and 10,920 tonnes of asphalt contracted to resurface badly distressed roads. A total of 33.0 kilometers of road were resurfaced in Kings county. Deep patching crews jack hammered out some severely damaged sections and repaired them with approximately 1,601 tonnes.

The following is the tonnage of asphalt acquired from each firm:

Suppliers	Tonnes
Matheson & MacMillan	8,737
Chapman Bros. Construction	19,606
Pauley's	331
Total	**28,674**

Resurfacing

The following roads were resurfaced with a 2-inch lift of asphalt using Department equipment and personnel as well as through private supply and place contracts:

Zone 1

Road	Kilometers
East Point	0.97
Red Point	0.83
Road	**Kilometers**
Chepstow	0.86
Little Harbour	0.35
New Zealand	0.71
Souris River	0.82
Souris Causeway*	0.85
Bear River	0.65
Total Kms	**6.04**

Zone 2

Road	Kilometers
Fortune	0.10
Fortune *	1.22
Red House *	1.98
Howe Point Road *	0.80
Milburn *	0.99
St. Patricks Road *	1.21
Lakeside *	1.22

Total Kms	7.52

Zone 3

Road	Kilometers
Dundas (Rte. 310) *	1.00
Dundas (Rte. 310)	0.61
DeGros Marsh *	1.00
Royalty Road *	1.01
Brothers Road *	1.11
Lorne Valley *	1.15
MacPhee Road *	0.92
Burnt Point Road *	0.85
Total Kms	**7.65**

Zone 4

Road	Kilometers
Water Street	0.17
Lower Montague	2.85
Robertson Road	0.70
MacDonald Road	1.16
Brudenell Point Road	0.40
Kilmuir Road	0.50
Total Kms	**5.78**

Zone 5

Road	Kilometers
Milltown	1.02
St. Mary's Road	0.97
Hopefield	1.54
Cemetary Road	0.70
Abney Road	1.01
Point Pleasant	1.04
Total Kms	**6.28**
GRAND TOTAL	**33.27**

* indicates roads resurfaced by private supply and place contract

Bush Cutting

Three Government mechanical bush cutters cut approximately 471 kilometers of bushes along the highways. Bush crews, consisting of a foreman and four labourers, along with a half-ton truck followed the mechanical bush cutters to pick up debris and trim where the cutter could not reach. The Division also used a mechanical brush chipper to eliminate the need to haul away the slash.

Road Maintenance

During the past year, motor graders were used to scrape and maintain the unpaved road network. In some cases, roads were also ditched and loaders and trucks (Department and privately-owned) were used to haul away unsuitable material.

Sandstone and/or gravel was placed as a new surface material, and new culverts, driveway or cross pipes were installed as required.

On the paved road network, a number of drainage problems were corrected. Equipment used to carry out this work included Department or privately-owned ditching machines and trucks. New culverts were installed as required.

Sandstone, gravel and/or rock used to carry out the above tasks of surfacing, repairing washouts, shoreline erosion, shoulder repair and material for drainage pipes was as follows:

Sandstone (m3)	Gravel (t)	Rock (m3)
14,394	7287	1215

The amount of culvert material installed was as follows:

Size	Length
300mm (12") ... steel	151'
400mm (16") ... steel	1229'
450mm (18") ... steel	0
500mm (20") ... steel	980'
600mm (24")... steel	1156'
800 mm (32")... steel	77'
900 mm (36") ... steel	0
1200 mm (48") ... steel	40'
300 mm (12) ... plastic	28'
375 mm (15") ... plastic	176'
450 mm (18") ... plastic	1108'
600 mm (24") ... plastic	759'
750 mm (30") ... plastic	0
900 mm (36") ... plastic	20'
750 mm (30") ... concrete PCP	57'

Grass Cutting

The Department hired one private grass cutter and a rotary mower to maintain 117.9 kilometers of roadside grass. Grass was cut from the middle of June until the end of September. In addition, three farm tractors equipped with rotary mowers and side cutter attachments were utilized for roadside grass cutting on the balance of approximately 1,382 kilometers throughout Kings County.

Shoulder Repairs

During the past season, shoulder material was used to upgrade and repair worn out sections of shoulders on the following roads:

Zone 1

Road	Kilometers
Lighthouse Road	2.40
East Point	2.40
Gowan Brae	3.30
Little Harbour	1.00
Total Kms	**9.10**

Zone 2

Road	Kilometers
Howe Point Road	1.00
Milburn Road	1.00
St. Patricks Road	1.00
Red House Road	1.00
Total Kms	**4.00**

Zone 3

Road	Kilometers
Seven Mile Road	10.00
Alleys Mills Road	8.00
Dundas Road	8.00
Brothers Road	2.00
DeGros Marsh Road	2.20
Poplar Point Road	3.00
Peakes Road	3.00
Queens Road	2.50
Georgetown Road	10.00
Total Kms	**48.70**

Zone 4

Road	Kilometers
Sturgeon Road (Rte. 017)	2.85
Road	**Kilometers**
MacDonald Road	1.16
Total Kms	**4.01**

Zone 5

Road	Kilometers
Point Pleasant Road	1.04
Hopefield Road	1.55
Abney Road	1.02
Milltown Cross Road	1.03
Total Kms	**4.64**

Dust Control

Maintenance crews used 474 forty-kilogram bags of flaked calcium chloride to control dust in specific locations.

Liquid calcium chloride was used for dust control and stabilization on gravel roads only. A total of 162,000 litres was used to treat 92.2 kilometers of road. Following is a list of roads to which liquid was applied:

Zone 1

Road	Kilometers	Litres
Gowan Brae Road	2.00	3789
St. Catherines Road	1.50	2842
Manning & Grant Roads	1.50	2842
East Trenholm Road	0.25	474
Shore Road	0.50	947
Pensioners Road	0.25	474
Park Road	1.00	1895
New Harmony Road	1.00	1895
Peters Road	1.50	2842
Totals	**9.50**	**18,000**

Zone 2

Road	Kilometers	Litres
Kenny Road	0.60	1102
St. Patricks Road	0.50	918
Road	**Kilometers**	**Litres**

River Road	6.10	11203
Settlement Road	2.50	4592
MacPhee Road	4.70	8633
Bennett Road	3.00	5510
Settlement Road	1.60	2939
Canavoy Road	3.50	6429
Grove Pine Road	2.50	4592
Red House Road	2.10	3857
Big Lot Road	3.10	5694
Mill Road	1.00	1837
Warren Road	1.00	1837
MacDougall Road	1.10	2020
Dunn Road	1.00	1837
Totals	**34.30**	**63,000**

Zone 3

Road	Kilometers	Litres
Power Road	0.50	900
Collins Road	4.50	8100
Nelson Road	0.20	360
Brothers Road	4.90	8820
MacDonald Road	1.40	2520
Sally's Beach Road	1.00	1800
Sandy Lane	0.50	900
Gay Road	0.50	900
Mill Road	2.00	3600
Beach Road	1.00	1800
Lorne Valley Road	2.00	3600
Sailor Hope Road	1.00	1800
Burnt Point Road	0.50	900
Totals	**20.00**	**36,000**

Zone 4

Road	Kilometers	Litres
Brudenell Point Road	1.80	2867
Angus Lane	1.70	2708

Central Street (Langley Road)	0.70	1115
Campbell Road	2.00	3186
Compton Road	0.90	1434
Loane Road	1.30	2071
MacRae Road	0.50	796
South Montague Road (dist. 3)	2.40	3823
Totals	**11.30**	**18,000**

Zone 5

Road	Kilometers	Litres
Panmure Island Road	0.50	900
Blue's Road	0.50	900
County Line Road	0.50	900
Pt. Pleasant Road	1.80	3375
Pembrooke Road	0.80	750
Clement Road	2.00	4500
Buell Road	1.00	1875
Cove Road	2.00	3750
Bruce Road	1.00	900
Gladstone Road	3.00	5250
Compton Road	1.00	900
MacPherson Road	1.00	900
Grey Road	2.00	2100
Totals	**17.10**	**27,000**

Other Maintenance Activities

Zone 1	Ditching		Other Maintenance Activities				
Name of Road	**Paved (kms)**	**Unpaved (kms)**	**Shoulders (kms)**	**Graded (kms)**	**Surfaced (kms)**	**Tap Drains (kms)**	**Bush Cutting (kms)**
Glencorradale Road		0.30			0.70		
Peters Road		0.40			0.35		0.20
Lower Rollo Bay Road	0.02		0.90				
Kitson Road	0.03						
South Lake Road	0.03						
New Zealand Road	0.10		0.60				
Campbells Cove Road			0.60				
Bothwell Road			0.42				
South Lake Road			0.90				
Gowan Brae Road			0.80				0.07
Chepstow Road			0.95				
Red Point Road			0.85				
Little Harbour Road							0.08
Red Point Road			0.03				0.10
Munn's Road			0.02				
Green Street			0.02				
Souris Line Road			0.57		0.04		
Harmony Road					0.20		
Manning Road					0.06		
Johnston Road					0.03		
Shore Road					0.10		
Paddy Road					0.10		1.40
Pensioners Road					0.12		
Hermanville Road					0.05		
Middle Trenholm Rd.					0.09		
Big Pond Road					0.05		

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Greenvale Road					0.04		
Fountain Head Road					0.06		
Father James Road					0.05		
Fraser Road					0.06		
Bull Creek Road					0.09		
Kelly Road					0.12		
New Harmony Road					0.19		0.20
MacDonald Road					0.22		
Bear River Road							1.20
Basin Head Road							0.20
Totals	**0.18**	**0.70**	**6.66**	**0.0**	**2.72**	**0.0**	**3.45**

Zone 2	Ditching		Other Maintenance Activities				
Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Cable Head West Road		2.50		1.50	2.50 Millings	3.00	1.00
Sheehan Road		1.50		0.20		1.00	1.00
Stanhope Road		1.00			0.50 Millings		
MacEwen Road (South)		0.20					0.20
Church Road (Fortune)		1.30					1.30
Canavoy Road					1.00		
Farmington Road (Route 2)	0.30						
Fortune Road							2.00
Mill Road (St. Charles)							2.00
Mooney Road							3.00
Greenwich							2.00

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Red House							5.00
Bangor Road			0.20				
St. Charles Road			0.10				
Fortune Wharf Road			0.20				
St. Patricks Road	0.20						
Fanningbrook Road	0.20						
Chad Road		1.00					0.50
Totals	**0.70**	**7.50**	**0.50**	**1.70**	**4.00**	**4.00**	**18.00**

Zone 3	Ditching		Other Maintenance Activities				
Name of Road	**Paved (kms)**	**Unpaved (kms)**	**Shoulders (kms)**	**Graded (kms)**	**Surfaced (kms)**	**Tap Drains (kms)**	**Bush Cutting (kms)**
Union Road			0.60				1.00
Alleys Mill Road	0.25				0.50		
Little Pond Road	0.40		1.00				
Kays Road			0.75				
Seven Mile Road							1.50
Martinvale Road			0.50				1.00
Bruce Point Road				0.50			1.00
McPherson Road							0.50
Launching Back Road				0.25	0.25		
Elm Road				0.50	0.25		
Old St. Georges Road		1.00		1.00			2.00
Ward Road					0.25 Millings		
Milburn Road				1.00	1.00		1.00
Norton Road					0.15 Millings		

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Collins Road		0.80		1.60	0.20 Millings	1.00 Surfaced	1.00
Perth Station Road			0.20	0.50	0.50		1.00
Wharf Road			0.50				1.50
Moar Road				0.10	0.10		
Queens Road						0.20	
Georgetown Road	0.30						0.50
Sandy Lane				1.00	0.30		
Mellish Pond Road		2.00		2.00	1.50		
Line of the Lot Road		1.00		1.00	0.20		
New Road				0.40	0.40		1.00
Pond Road	0.10						
Whitlocks Pond Road				0.30	0.20		
Stonearch Road				0.30	0.30		
Launching Road			0.60	0.60	0.60		
MacPhee Dam Road				0.15	0.15		0.15
North Royalty Road			0.50				1.50
France Road				0.40	0.30 Millings	0.30 Surfaced	1.00
Melrose Road	0.20						
Old Upper Road			0.30				
Brothers Road							2.00
Cardigan Road			0.50				1.00
Shepard Road	0.20	0.50					1.00
Primrose Road	0.20						1.50
TOTALS	**1.65**	**5.30**	**5.45**	**11.60**	**7.55**	**0.20**	**21.15**

Zone 4	Ditching		Other Maintenance Activities				
Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Brudenell Pt. Road			0.42		0.42	0.10	
Lloyd Westaway Road							0.55
Jack Westaway Road				1.50	0.30		0.84
MacRae Road				1.90			1.20
County Line Road				2.75			1.26
Sturgeon Rd (Rte. 17)			0.95		2.85		0.13
Loane Road				1.30			0.73
South Montague Rd.							0.42
Wightman's Pt. Rd.	0.08						0.04
Peardon Road							0.07
Compton Road				0.90			
Roma Point Road				2.10			
Kilmuir Rd. (Rte 316)	0.05		0.50		0.50		
Robertson Road	0.01		0.70	0.80	0.70		
Angus Lane				1.70			
Dewar Road				0.50			
Route 354				1.80			
Dalmaney Road				1.65			
Thornton Road				2.30			
Nicholson Road				0.36			
Wood Islands Rd.	0.12						
Campbell Road		0.70			1.40		
MacDonald Road	0.47						
Commercial Road			0.45				
Water St., Montague					0.17		
TOTALS	**0.73**	**0.70**	**3.02**	**19.56**	**6.34**	**0.10**	**5.24**

Zone 5	Ditching		Other Maintenance Activities				
Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Abney Road							2.00
Beach Point			0.50				
Black Brook		0.50	0.20				
Cahoon's Wharf Road					0.10		6.00
Cambridge Road							3.00
Cemetery Road			0.70				
Clements Road							3.00
Commercial Road			0.90				
County Line Road		1.00					0.50
Floating Bridge Road		0.50					2.00
Livingstone Road		1.00					0.50
Little Sands Road			0.50				
Milltown Road			0.98				
Moores Road							1.20
Murray River Road							0.50
Murray Harbour Road			0.50				
McCarron Road							0.50
Norman's Road							4.00
Pembrook Road			0.20		0.20		
Panmure Island Road			0.20				
Peters Road	0.20						0.50
Pioneer Cemetery Rd.		1.20		0.60		0.10	0.30
Point Pleasant Road	0.20						3.00
St. Marys Bay Wharf Road			0.50		0.10		
Sturgeon Wharf Road							0.20
TOTALS	**0.40**	**4.20**	**5.18**	**0.60**	**0.40**	**0.10**	**27.20**

EASTERN REGION: WINTER MAINTENANCE

Winter activities in the eastern region involved salting, sanding and snow removal. Temporary patching of paved roads, water drainage and washout repairs, as well as any maintenance activities required to keep our highway system as safe as possible for the motoring public were undertaken.

The Region purchased 26,493.57 tonnes of blended salt and sand. This blended material consisted of a mixture of six percent salt, 40 percent imported, 1/4" minus stone and 60 percent sand. This material was stored at eight sites throughout the Region. There was 5214.97 tonnes of salt purchased.

Ice Control

Ice control on sections of Highway 2, 3, 4 and 16, as well as Souris and Montague main streets, and 117 kilometers of road were maintained by direct salt application. Five tandem trucks, equipped with computer salt spreading systems, were utilized to spread salt. Approximately 1,044 kilometers were maintained with sand/salt applications involving seventeen hired trucks and six Department trucks.

An additional 4,151.24 tonnes of blended sand was required to replenish the winter sand piles during the season.

Winter Plowing

Total snowfall recorded at Environment Canada recording stations in the eastern region were:

	Recorded (cm)		
Month	**Bangor**	**Monticello**	**Alliston**
November '01	29.0	26.0	15.0
December '01	80.0	55.0	76.0
January '02	75.6	36.0	53.0
February '02	56.0	50.2	45.2
March '02	54.0	32.0	51.0
April '02	14.0	15.0	10.0

The heaviest snowfall in the eastern region was recorded on December 3rd, 2002 at the Monticello recording station with a total of 25.0 cms of snow.

Contracted Services

The following is a breakdown of the contracted snow removal services for the third year of a 3-year contract with private contractors and a list of equipment used by each.

Contractor	Kms	Contract Area	Grader(s)	Loader(s)	Truck(s)	Blower(s)
G & P Trucking	72	K2		1	3	1
Kenny's Backhoeing Ltd.	109	K3, K4	1	1	2	1

Contractor	Kms	Contract Area	Grader(s)	Loader(s)	Truck(s)	Blower(s)
King's County Const.	88	K2, K3	3	1	2	2
Francis MacLean	31	K3		1	1	
Chapman Brothers	122	K1, K2	2	2	2	2

The Department was responsible for plowing 791.98 kilometers of highway. To this end, 23 plow routes and 4 blower routes were established. The following equipment was assigned and located as follows:

Location	Kms	Graders	Blowers	Laoders	Trucks
South Lake	28.90	1			
Bayfield	24.70	1			
St. Charles	33.80				1
Bangor	29.70				1
Forest Hill	33.10				1
Savage Harbour	36.90			1	
Morell	35.60				1
St. Teresas	27.40	1			
Red House	17.00			1	
Bridgetown	28.30				1
Georgetown	32.20				1
Strathcona	31.90	1			
Cardigan	25.45	1			
Little Pond	29.40	1			
Souris	30.31				1
St. Georges	40.80				1
Whim Road	44.55				1
Sturgeon	51.50	1			
Dover	45.00				1
Morell East	22.40				1
Guernsey Cove	38.80	1			1

Location	Kms	Graders	Blowers	Laoders	Trucks
Murray River	55.97				1
Gaspereaux	38.30				1
St. Peters (village)			1		
Cardigan (village)			1		
Murray River (village)			1		
Souris (town)			1		
Totals	**791.98**	**8**	**4**	**2**	**14**

Snow Fence Report
The Department installed approximately 3700 metres of snow fence adjacent to Department plowed routes to control drifting in open areas.

CENTRAL REGION: SUMMER MAINTENANCE

Hot mix asphalt for patching crews was available from the last week in May to the first week in November. A total of 35,076.73 tonnes was used in repairing the region's paved road network out of the Pavement Maintenance budget. Hand patching crews spread 6,509.62 tonnes. The spreader crew resurfaced badly distressed pavement with 18,422.04 tonnes of asphalt. There was also 8,573.13 tonnes of asphalt contracted to resurface badly distressed pavement. Deep patching crews jack hammered severely damaged sections and repaired them with 1,133.20 tonnes of asphalt. An additional 438.74 tonnes were used to repair damaged or heaved driveway culverts.

The following is the tonnage of asphalt acquired from each firm:

Suppliers	Tonnes
Island Construction	24,071.43
Chapman Construction	6,327.66
Pauley Construction	4,677.64
Total	**35,076.73**

Resurfacing
The following roads were resurfaced with a 2-inch lift of asphalt by Department equipment and personnel as well as through private supply and place contracts:

Zone 6

Road	Kilometers
Brush Wharf	2.00
Iona Road	1.00

Road	Kilometers
Village Green	1.00
Earnscliffe	0.50
Total	**4.50**

Zone 7

Road	Kilometers
Marion Drive *	0.19
MacLauchlan Road	0.20
Bonavista Drive	0.32
Cable Heights	0.40
Bellevue *	0.48
Johnson Drive *	0.52
Dewar Drive *	0.70
Kennedy Road *	0.50
Rosebank *	0.44
Mojorie Crescent *	0.66
Stewart	0.08
Falcon *	0.49
Total	**4.90**

Zone 8

Road	Kilometers
Blooming Point Road	1.00
Savage Harbour	1.00
Mt. Stewart Main	1.00
Mermaid Mini Farms *	1.00
MacKinnon Road	0.6
Total	**4.60**

Zone 9

Road	Kilometers
Bay Shore Road *	2.00
MacCallum Road *	0.50
McCann *	0.30
MacLauchlin Subdivision *	1.00
MacMillan Point Road	2.20
Total	**6.00**

Zone 15

Road	Kilometers
MacKenzie Cross/Rustico Road *	0.80
Kentyre Road *	1.20
Kilkenny Road *	0.30
Union Road *	0.40
Total	**2.30**

Zone 16

Road	Kilometers
Cornwall Road *	1.00
Brookside Drive	1.50
Rice Point	0.30
McArthur Drive	0.20
Kellow Drive	0.54
Colville Road	0.02
Total	**5.32**

Zone 17

Road	Kilometers
Westmoreland	1.70
Argyle Shore	1.00
Canoe Cove	1.00

Road	Kilometers
New Argyle Shore	1.00
Route#13, Kelly's Cross	1.00
St. Catherines	1.2
Total	**6.90**

Zone 18

Road	Kilometers
Grahams Road	1.00
Fountain/Wigmore Road	1.00
Toronto Road	0.90
Snowie Road	0.70
St. Patricks Road	0.60
Stanley Bridge	0.10
Yankee/Cape Road	0.30
Total	**4.60**

Grand Total 39.12 km

* indicates roads resurfaced using private supply and install contracts.

Guardrail Program

This year the region hired one guardrail crew. This crew was used to maintain worn out guardrail on various sections of the highway system across the region. Also, the crew used whipper snippers to cut grass and weeds around guardrails and guideposts in the district.

Grass Cutting

The Department used four government owned farm tractors and two privately owned farm tractors equipped with a rotary or flail cutter to maintain 2,136 kms of roadside grass cutting from June to September, 2002.

Dust Control

In 2002, 4 tonnes of flaked calcium chloride was used on our unpaved road network for dust control. A total of 198,000 litres of liquid calcium chloride was applied for dust control in the following districts.

District	Litres
6	31,500
18	49,500
16 & 17	45,000
7, 9, & 15	27,000
8	45,000

Road Maintenance

During the year, district motor graders were used extensively to scrape and maintain the unpaved road network and to re-shape and reditch others. To aid in the latter operation, Department and private loaders and trucks were used to haul away unsuitable material. Sandstone and/or gravel was placed for a new surface material and new culverts, driveways or cross pipes were installed as required.

On the paved road network, a number of drainage problems were corrected. Equipment used to carry out this work included department or privately owned ditching machines and sometimes department trucks but mainly privately owned trucks. Again, new culverts, driveways and cross pipes were installed as required.

District maintenance crews, equipped with a 3-ton truck and a backhoe, were employed in repairing washouts, installing new culverts to accommodate building permits, replacing and resetting other drainage pipes or culverts, as well as carrying out many other miscellaneous tasks.

The following is the total materials used to carry out the above tasks of surfacing, repairing washouts and replacing drainage pipes:

Sandstone (cm)	Gravel (tonne)	Culverts (lf)	Topsoil (cm)	Rip Rap (tonne)	Crushed Asphalt (tonne)	Gabriel Stone (tonne)
24,686.00	9,988.34	20,517	1455.00	345.05	2,214.00	517.47

The accompanying tables give the location and extent of work done in each district for the past year.

Zone 6	Ditching		Other Maintenance Activities				
Name of Road	**Paved (kms)**	**Unpaved (kms)**	**Shoulders (kms)**	**Graded (kms)**	**Surfaced (kms)**	**Tap Drains (kms)**	**Bush Cutting (kms)**
Murray Harbour Rd.			0.80				1.10
Glencoe St. Rd.							1.50
Seal River Rd.							2.50
Pownal Rd.	0.20					0.30	
Center Road					0.50 Chips		
Wood Islands Road				0.10			
Village Green Road					0.30 Chips		2.00
Avondale Road			0.30			0.50	8.90
48 Road							8.60
Newtown Road			0.30				
Trans Canada	0.20						4.70
Name of Road	**Paved (kms)**	**Unpaved (kms)**	**Shoulders (kms)**	**Graded (kms)**	**Surfaced (kms)**	**Tap Drains (kms)**	**Bush Cutting (kms)**

Rifle Range		0.60					
County Line Rd.							1.40
Crown Point Road		1.00		1.60	1.60 Shale& Gravel		1.60
Klondike Road				2.50	2.00 Shale& Gravel		
West Road	0.20						
Gairloch Road					1.60 Gravel		
Monaghan Road			0.40				
Kinross Road			0.10				
Garfield Road	0.10						
MacLeod Road		0.40		0.40	0.40 Gravel		
Oceanview Road		1.60		1.60	1.60 Gravel		
Rte.#3, Vernon River						0.40	
Rte.#3, Millview	0.10	0.30					13.80
Storey Road					0.10 Shale		
Murray's Road					0.20 Shale		
Fairville Road							2.70
Beech Hill Road							1.10
Hermitage Road							2.60
Camp Road							2.90
Riverview Drive							1.60
Gairloch Road							4.30
Totals	**0.80**	**3.90**	**1.90**	**6.20**	**8.30**	**1.20**	**61.30**

Zone 7	Ditching	Other Maintenance Activities

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Anne Crescent	0.30						
Aptos Drive	0.50			0.10			0.20
Beacon Hill.	0.40		0.60			0.10	
Brandy Lane			0.40				
Burhoe Sub.	0.60						0.40
Clifton Road		0.20					0.10
Falcon Drive	0.20		0.20				
Glen Stewart Drive	0.70		0.90		0.40		0.40
Kinlock Road	0.30				0.10		0.20
Keppoch Road	1.20		0.30				0.40
Keppoch Lane	0.20		0.50				
Marion Drive	0.30		0.40				0.10
Rankin Subdivision	0.30						
TeaHill Road			0.60			0.20	0.20
Upper TeaHill Cres.			0.10				0.10
Cable Heights			0.30				
Totals	**5.00**	**0.20**	**4.30**	**0.10**	**0.50**	**0.30**	**2.10**

Zone 8	Ditching		Other Maintenance Activities				
Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Afton Road		0.40		0.60	0.60		0.50
Anderson Road		1.60		1.60	1.60		2.80
Avondale Road				1.30			1.00
Bedford Road	0.70		3.00				2.50
Bethel Road	0.50	0.90		1.80	1.80	0.30	2.00
Blooming Point Rd.	0.60						6.00
Buell Road							1.00

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Cape Briton Rd.		0.40		1.00	1.00		
Donaldston Road	0.50						3.00
Donagh Rd.	0.50						3.00
Dromore Road				1.20			0.50
East River Rd.				1.30			1.20
Feehan's Point Road				0.50			1.00
Fort Augustus Road	1.20		2.00				12.00
Frenchfort Rd.		0.50	1.00	0.50	0.50		
French Village Road			2.00				3.00
Higgin's Rd.				0.40			2.00
Jones Rd.		0.30		0.30			
MacKinnon Pt. Road			0.20				0.50
MacEachern Road		0.20		0.40			
Millcove Road				0.40			
Mini Farms Sub.	0.20					0.20	2.50
Monaghan Rd.							6.00
Mooney Road	0.20						1.00
Mt. Herbert Road							0.50
Mt. Stewart							2.00
Pisquid Road	1.20		2.00				4.00
Pt. DesRoches Rd.				2.00	1.20	0.30	
Queen's Pt. Road				3.50			2.30
Red Point Road	0.50						1.20
Robinson Road							1.30
Savage Harbour							2.20
Simmon Lane Rd.				1.50			2.00
Tarantum Road	0.30						3.00
Tracadie Harbour							1.60

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Watts Road							1.00
White Road		0.50		2.30			3.00
Totals	**5.40**	**4.80**	**10.20**	**20.60**	**6.70**	**0.80**	**75.60**

Zone 9	Ditching		Other Maintenance Activities				
Name of Road	**Paved (kms)**	**Unpaved (kms)**	**Shoulders (kms)**	**Graded (kms)**	**Surfaced (kms)**	**Tap Drains (kms)**	**Bush Cutting (kms)**
Bayshore Road	0.10		1.00				1.50
Brackley Pt. Rd.	0.15					0.15	
Cass's Rd.	0.04						
Covehead Road	0.15		3.08				2.00
East Suffolk			0.20				
Eastern Road	0.03			1.00			
Fristen Road	0.03	0.45					
Guerney Rd.		0.05		0.20			
Hardy Mill Road	0.03						
Jenkins Road							3.00
Lr. Marshfield Road							3.00
MacMillan Point Road	0.10						
Normandy Lane					0.20		1.00
Pleasant Gr. Rd	0.04						6.00
Stanhope Lane							0.80
Suffolk Rd.	0.04	0.03	0.53				4.00
Vickerson Road	0.25	0.80	0.30				0.80
York Road	0.10		0.48				4.00
Yorkdale Estates	0.06						
Totals	**1.12**	**1.33**	**5.59**	**1.20**	**0.20**	**0.15**	**26.10**

Zone 15	Ditching		Other Maintenance Activities				
Name of Road	**Paved (kms)**	**Unpaved (kms)**	**Shoulders (kms)**	**Graded (kms)**	**Surfaced (kms)**	**Tap Drains (kms)**	**Bush Cutting (kms)**
Brackley Pt. Rd.	0.10						4.00
Kilkenny road	0.03	0.05					
Lr. Malpeque Road	0.04						
MacKenzie Rd.			0.20				
Malpeque Rd.			0.10				
Union Rd.	0.08					0.18	
Winsloe Rd.	0.05						5.00
Totals	**0.30**	**0.05**	**0.30**	**0.0**	**0.0**	**0.18**	**9.00**

Zone 16	Ditching		Other Maintenance Activities				
Name of Road	**Paved (kms)**	**Unpaved (kms)**	**Shoulders (kms)**	**Graded (kms)**	**Surfaced (kms)**	**Tap Drains (kms)**	**Bush Cutting (kms)**
Fulton Dr.	0.04						
Blockhouse Road	0.02	0.06					1.50
Cornwall Road	0.20		5.00				1.00
Cumberland Line Rd.		0.80					
Ferry Rd.	0.03		0.20				2.50
Hyde Point Rd.					0.20		
Kingston Rd.	0.03		1.50				4.50
Lowther Dr.	0.02						
Loyalist Rd.			0.60			0.13	
Marrianne Dr.	0.02						
Mill Road		0.07					
Meadow Bank Rd.			2.00				3.50
Moases Sub	0.03						
Nine Mile Creek Rd.	0.05		0.35				1.80
Oyster Shack Road		0.05					

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Canoe Cove Road			0.65				2.50
Trans Canada Hwy.	0.05		0.25				
West River Road	0.04		0.30				1.00
Warren Gr. Rd.	0.04		0.80				
York Point Road	0.05	0.03					
Totals	**0.62**	**1.01**	**11.65**	**0.0**	**0.20**	**0.13**	**18.30**

Zone 17	Ditching		Other Maintenance Activities				
Name of Road	**Paved (kms)**	**Unpaved (kms)**	**Shoulders (kms)**	**Graded (kms)**	**Surfaced (kms)**	**Tap Drains (kms)**	**Bush Cutting (kms)**
Malpeque Road			1.6	1.6	0.3 Gravel		
Kinkora Road			3.4	3.4	0.4 Gravel		2.05
Kingston Road			2.3	2.3	0.2 Gravel		10.3
Rattenbury Road			0.1		Gravel		
Nodd Road			0.04		Shale		
Newton Road			0.03		Shale		
Darlington Road			0.20		Gravel		5.20
Grahams Road			0.10		Shale		
Johnston Road				0.30	Shale		
Smith Road		0.30					4.50
Millvale Road	0.20						6.60
Maplewood Road		0.30					6.00
Dixon Road		0.50			Shale	Cross Pipe	5.70
Holmes Road							1.20
MacDonald Road							1.80

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Junction Road(Emerald)				0.10	Chips		
George Smith Road							
Warburton Road		0.14		0.20	Shale		0.60 Hand
Hazelgrove Road		0.30		0.80	Shale		0.70 Hand
Oldtown Road		0.40		0.10	Shale		2.90
Clyde Road		0.20					2.30
MacLeod Road							
Junction Road		0.30		4.50	Shale		
Old Springton Road							0.10 Hand
Mill Road, Dixon							0.50
Hilltop Road							0.50
Peters Road		0.20					
Clarkin Road			0.30				4.10
Mill Road(Wiltshire)				0.10	Shale		
Callaghan Road							0.20
Ross Road		0.20		0.10	Shale		
Collette Road							0.20
Monument Road 12135							0.20
Colville Road			0.40	0.40			8.10
Mill Road(Springfield)							3.44
Breadalbane Road				0.40	Gravel		3.30
Alton MacLean Road							0.40
Colville Road	0.10		0.30	0.30			
Kingston Road 235							
Argyle Shore Road			1.40		Gravel		

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Rice Point Road			1.00		Gravel		2.00
Riverdale Road	0.30		0.20		Shale		7.50
Canoe Cove Road			0.20		Shale		
Bannockburn Road							4.70
South Melville Road			0.20		Shale		9.24
West River Road	0.10		1.20		Gravel		
Appin Road							5.90
Peters Road							
Clyde River Road			0.20		Shale		
Lynwood Road							0.20 Hand
Sandy Point Road		0.30					3.24
Cameron Road 22135			0.10				
Victoria Village			0.20				
Wynn Rd.							2.70
Old Post Road							1.70
St. Catherine's Road			0.20		Shale		
New Argyle Road	0.10		0.10				
Baltic Road			0.40		Gravel		1.80
Cameron Road 22098		0.20					
Wharf Road(Churchill)							Hand
Mill Hampton Road					Shale		2.00
Meyers Road	0.10						
MacQuarrie Road			0.10				
MacNevin Drive	0.03						
Bayers Drive			0.04				
Bonshaw Road	0.20		0.10				
MacEachern Road							0.20 Hand

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Shaw Wharf Road(Dunedin)		0.10					
Park Road(Canoe Cove)				0.10	Shale		
Cottage Road				0.20	Shale	Cross Pipe	0.10 Hand
Line Road(Canoe Cove)							0.40 Hand
Monument Road							0.30
Lamb Road							0.40
Green Bay Road				1.30	Chips		3.80
Currie Road				0.10	Shale		0.50
McKenna Road				0.20	Shale		1.80
Farrar Road			3.00				
Todd Road							2.20
Old Appin Road				0.20	Shale		1.50
Old Tryon Road.				0.10	Shale		
Ferguson Road					Chips		0.60
Halls Road			0.20				1.2
Perley Shaw Road			0.20				
McCourt Road							0.20 Hand
Leard's Mill							1.50
Balakalava Road							2.50
Balakalava Road							2.40
Inkerman Road							10.90
Bolger Park							1.90
Osborne Road					Shale	Cross pipe	0.43
Old Town Road			0.10				1.20

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Memory				0.10	Shale		
Mill, Crapaud				0.10	Gravel		
Nelson Street			0.20				
Warburton Road				0.30	Shale		0.60 Hand
Old Princetown Road				0.20	Shale		
Mill, Hazelgrove		0.10		0.10	Shale		
Totals	**1.13**	**3.54**	**18.11**	**17.6**	**Shale**	**0.0**	**146.50**

Zone 18	Ditching		Other Maintenance Activities				
Name of Road	**Paved (kms)**	**Unpaved (kms)**	**Shoulders (kms)**	**Graded (kms)**	**Surfaced (kms)**	**Tap Drains (kms)**	**Bush Cutting (kms)**
Campbell's Pond							1.00 Hand
Dave Smith Rd.					0.80		
Douglas Rd.		0.30		0.30	0.30	Shale	
Long River East					0.70	Shale	
MacInnis Road		0.10					
New Road			0.50				
Princetown Rd.					0.20	Shale	
Rte. 20			1.00				
Snowie Rd.					0.70		
Cousins Shore					0.30	Shale	
Douglas Rd..		0.30		0.30	0.30	Shale	
Pickering Rd..					0.30	Shale	
North Rd.					0.50	Shale	
Marks Rd.					0.30	Shale	
Rustico Rd.					3.00	Shale	11.00

Name of Road	Paved (kms)	Unpaved (kms)	Shoulders (kms)	Graded (kms)	Surfaced (kms)	Tap Drains (kms)	Bush Cutting (kms)
Portage Rd.							6.00
Brackley Pt. Rd.							10.00
Winsloe Rd.							8.00
Crooked Creek							6.00
Totals	**0.00**	**0.70**	**1.50**	**0.60**	**7.40**	**Shale**	**42.00**

CENTRAL REGION: WINTER MAINTENANCE

Ice Control

Winter activities for this branch of the Region include salting and sanding operations, temporary repairs to paved roads (251.48 tonnes of cold mix asphalt was used), repairing of shoulder washouts, maintaining and cleaning of culverts, catch basins and ditches to accommodate run-off caused by freshets, plus snow removal or clearing from 8 government buildings in the Charlottetown area.

The City of Charlottetown purchased 6,730.22 tonnes of salt from the Department. The Region purchased 37,311.42 tonnes of blended winter sand. The blended material consisted of 6% salt, 20% crushed 1/4 minus stone and 74% local sand. The City purchased 982.30 tonnes of blended sand for its use. The total tonnage of salt purchased by the Region was 15,230.74 tonnes.

Ice control on the main 185 kilometers of highway, a two lane equivalent of 249 kilometers, was maintained by the direct application of road salt. Four single-axle trucks with sand/salt hoppers, as well as four single-axle and eight tandem trucks equipped with plow gear and sand/salt hopper were utilized for this purpose. There were six tandem trucks equipped with computerized spreaders. Ice control on the remaining 1,625 kilometers of road was maintained by a sand/salt mix obtained from 12 sand stockpiles throughout the County. Twenty-two contracted trucks, equipped with automatic spreaders, were hired to carry out this activity. In addition, six single axle department trucks were utilized to provide this service in the Charlottetown and Stratford area.

Winter Plowing

Total snowfall recorded at Environment Canada recording stations in the central region were:

	Recorded (cm)				
Month	**Charlottetown**	**Elmwood**	**New Glasgow**	**Long River**	**Victoria**
November '01	16.4	24.2	13.0	18.0	28.6
December '01	50.7	48.6	27.0	48.8	45.0
January '02	59.6	63.6	33.0	69.8	48.6
February '02	19.9	33.0	30.0	29.0	30.4
March '02	50.8	58.4	21.0	60.0	34.8
April '02	24.6	35.8	15.0	25.0	17.0

The heaviest snowfall for the season in the central region was recorded on December 26, 2002 at the Elmwood recording station with a total of 26.2 centimetres of snow.

Contracted Services
The following is a breakdown of the contracted snow removal services for the contract year.

Area 1

Contractor	Kms	Contract Area	Grader(s)	Loader(s)	Blower(s)	Truck(s)
AK Construction.	65.04	Zone 17	-	1	1	2
Island Construction	127.6	Zone 8	1	1	1	2
Island Excavators	98.67	Zone 17 & 19	3	1	1	1
Matheson Constr.	94.27	Zone 17	-	2	1	3
Cecil Pauley Const.	62.22	Zone 6	1	1	1	3
Duffy Backhoeing & Trucking	27.04	Zone 6	1	1	1	2

Area 2

Contractor	Kms	Contract Area	Grader(s)	Loader(s)	Blower(s)	Truck(s)
Birt & MacKay	78.57	Zone 8	1	1	1	3
Maritime Const.	111.6	Zone 17 & 18	-	1	1	4
Matheson & MacMillan	95.87	Zone 9, 18	1	-	1	4
Toombs Plumbing & Heating	40.9	Zone 18	-	1	-	2
North Shore Trucking	60.58	Zone 8	1	1	1	3

Government owned equipment was responsible for plowing 761 kilometers this year, over 74 routes. The following equipment, including spare equipment, was assigned and located as follows:

Location	Graders	Blowers	Loaders	Trucks
TCH West				2
St. Peter Road				1
TCH East				1
Malpeque Road				1
Bedeque/ Kingston Road		1		1
Stratford	2	1	2	2
Location	**Graders**	**Blowers**	**Loaders**	**Trucks**
Sherwood/East&West Royalty	1			4
Frederiction/Ch'town				2

Pownal/Crossroads			1	
Stanley Bridge/North Rustico	1			
Rice Point/Rocky Point	1			
Rocky Point/Cornwall Road/Meadowbank Rd.		1		2
Cornwall/North River	2		1	
Rustico Road				1
Southport/Kinlock	1			
Wood Islands Area	1			
Selkirk Road/Vernon River		1		1
Selkirk Road/Bellevue/ Caledonia				1
Point Prim/Pinette	1			
Kinross/ Earnscliffe				1
TCH East				1
Charlottetown Garage (Includes Covehead & Bedeque Runs)	4	4	6	
Loader - Sand Pile			1	
Loader - Salt Shed *Rental*			1	
Garage Spares	1	2		1
Total	**15**	**4**	**13**	**15**

Snow Fence Report
The Region's own forces installed 2,700 metres of snow fence.

WESTERN REGION: SUMMER MAINTENANCE

Hot mix asphalt was available from May to November. A total of 4,929.10 tonnes was used in repairing the Region's highway network. Nine zone crews spread 3,590.17 tonnes to repair potholes, distressed areas and recap culverts.

Two Deep Patch crews spread 1,338.93 tonnes of asphalt mix to repair severely damaged sections of roadway and to recap cross culverts.

Two private contractors resurfaced 40.2 kilometers of paved roadways with 28,226.22 tonnes of asphalt mix.

Suppliers	Tonnes
HI Construction	15421.76
Curran & Briggs	12804.46
Total	**28226.22**

Resurfacing

The following roads were resurfaced with a 2-inch lift of asphalt. Work was carried out through private supply and place contracts.

Zone 19

Road	Kilometers	Asphalt (t)
Searletown Road	0.46	378
Augustine Cove	1.0	724
Victoria Road	0.53	700
Mt. Tryon Road	1.0	763
Beachlight Road	0.64	490
Bradford Road	0.75	566
Reeves Road	0.2	326
Branch Road	0.74	480
Total	**5.31**	**4,427.00**

Zone 20/21

Road	Kilometers	Asphalt (t)
Darnley Road	1.0	677.53
Hamilton, Rte. 104	1.81	1212.28
Baltic, Rte. 103	2.05	1379.71
Malpeque Wharf	0.25	174.01
Linkletter Road	1.22	838.22
Total	**6.33**	**4,281.75**

Zone 23/24

Road	Kilometers	Asphalt (t)
Sunnyside Road	1.2	722.65
Arlington Road	1.11	811.07
Kelly Road	0.97	497.09
Barlow Road	1.51	1012.69
Richards Road	2.1	1400.5
Beaton Road	1.16	744.25
Maximville Road	1.7	1185.23
Egmont Bay	1.02	714.4
Cape Egmont	1.95	1379.79
Total	**12.80**	**8,468.67**

Zone 25

Road	Kilometers	Asphalt (t)
Haliburton Road	1.69	1105.71
Hebron Road	0.94	717.11
Beaton Road	1.08	694.47
Murray Road	0.6	403.4
Total	**4.31**	**2920.69**

Zone 26

Road	Kilometers	Asphalt (t)
Poplar Street	0.267	178.09
Campbellton	0.84	581
Miminegash	0.366	289.95
Dock Road	2.03	1373.01
Alma TPW Depot	Parking lot	251
Roseville	0.9	589.68
Total	**4.40**	**3,262.73**

Zone 27

Road	Kilometers	Asphalt (t)
Route14,Waterford	1.07	741
Old Martin Road	0.69	407
Ascension Road	0.794	537
Tignish Street	0.69	540
Clark Road	1.24	852.85
Christopher Road	0.3	288.02
Hogans Road	1.74	1126.9
Spruce Lane	0.35	293.56
Total	**6.87**	**4,785.47**

Grand Total 40.02 km.

All resurfacing was carried out by private contractors through supply and place contracts.

Bush Cutting

During the season, two mechanical bush cutters, government owned and operated, worked extensively cutting bushes along right-of-ways for a total of 1,714 pass kilometers. To supplement these efforts, a crew equipped with a mechanical chipper was employed to gather and shred scattered debris and to trim where mechanical cutters could not reach.

The following is the number of kilometers of bush cutting done using mechanical bush cutters by Zone for the Region:

Zone	Pass Km
Zone 19	0
Zone 20	86
Zone 23	86
Zone 24	94
Zone 25	25
Zone 26	43
Zone 27	9
Total	343

Grass Cutting

The Region contracted nine private grass cutters to maintain 786 kilometers of paved roadside grass from the middle of June until the end of September. The remaining 454 kilometers of roadside grass cutting was carried out by three government owned and operated farm tractors equipped with rotary or flail cutters.

Guardrail and Roadside Maintenance
Three roadside crews were employed to repair damaged sections of guardrail. Also, these crews with the aid of whipper snippers and hand lawn mowers, cut grass and weeds around guardrails and guideposts in each Zone.

Dust Control
44.8 tonnes of flaked calcium chloride was purchased for use on the unpaved network to control dust within the Region, and 324,000 litres of 35% liquid calcium solution was applied by tanker and spray bar to various granular surfaced roads within the Region.

This practice has produced a number of positive results, such as increased safety due to dust control, reduction in dust pollution to crops, reduction in the need for grading, reduction in the need for new granular, and less frost heaving in winter.

Road Maintenance
Motor graders were used extensively to scrape and maintain the unpaved road network and to reshape and reditch failed sections. To aid in the latter operation, loaders and trucks were used to haul away unsuitable material. Sandstone and/or gravel was placed for a new surface and new culverts, driveways, and cross pipes were installed as required. To help alleviate soil erosion, check dams, silt fences and/or hydro seeding were used as the situation warranted.

On the paved road network, a number of drainage problems were corrected. Equipment used to carry out this work included Department or privately owned ditching machines along with Department and/or privately owned trucks. Again, new culverts, driveways and cross pipes were installed as required.

The Zone maintenance crews repaired washouts, installed new culverts to accommodate building permits, replaced and/or reset drainage culverts, and carried out any other maintenance tasks that were required.

The quantities of sandstone and/or gravel used for maintenance related projects for the Region are as follows:

Sandstone (M3)	**2" Minus** (tonne)	**Gabion Rock** (M3)
14619.5	5032.53	312.88

Gravel (tonne)	**B.Gravel** (tonne)	**Millings** (tonne)
18011.14	7108.46	404.4

The accompanying tables give the location and extent of work done in each Zone for the past year:

Zone 19	**Ditching**		**Other Maintenance Activities**		
Name of Road	**Paved**	**Unpaved**	**Graded**	**Shaled**	**Gravel**
Cumberland Cove Rd.		0.05	Yes	0.45	
MacCalliums Point Rd.	0.14	0.80	Yes	0.72	
Tryon Church Rd.				0.01	
Maple Plains Rd.	0.10	0.50			

Name of Road	Paved	Unpaved	Graded	Shaled	Gravel
Freetown Rd.	0.24				
Schurmans Point Rd.		0.30	Yes	0.09	
Bedeque Rink Rd.	0.18	0.02			0.05
Muttart Shore Rd.		0.32			
Lighthouse Rd.		0.28			
Craig Rd. Middleton	0.15				
Greenan Rd. Newton	0.09				
Newton Rd.		0.09			
Thrillhill Rd. Maple Plains	0.09				
Hogg Rd. Bedeque		0.02			
TCH Middleton		0.05			
Train Station Rd. Albany	0.04				
Tryon Mill Rd.	0.37				
Dougay Rd. Albany		0.57			
Mount Tryon Rd.	0.24				
Totals	**1.64**	**3.0**		**1.27**	**0.05**

Note: No data was recorded for the columns "shoulders," "tap drains," and "bush cutting."

Zone 20	Ditching		Other Maintenance Activities		
Name of Road	**Paved**	**Unpaved**	**Graded**	**Shaled**	**Gravel**
Twin Shore Rd.		0.20			
Co. Line Rd.		0.20	Yes		
Water view Rd.	0.16				
Barbra Waite Rd.	0.16				
Mountain Rd.		0.50			
Garden Dr.	0.20				
Totals	**0.52**	**0.90**			

Note: No data was recorded for the columns "shoulders," "tap drains," and "bush cutting."

Zone 23	Ditching		Other Maintenance Activities		
Name of Road	Paved	Unpaved	Graded	Shaled	Gravel
Route 12, Lot 06	0.15				
Route 132 Northam Rd.	0.40				
Route 134 MacNeils Rd.	0.28				
Route 12, Barlow Rd.	0.45				
Route 2 Wellington CTR	0.15				
Route131 Sunnyside Rd.	0.35				
Mill Rd. North Enmore		0.17			
Route 163 Lennox Island Rd.	0.11				
Route 128 Harmony Line	0.21				
Route 130 Richards Rd.	0.14				
Route 2 West Devon	0.45				
Low Pt. Rd.	0.70				
Route 127 Prought Rd.	0.26				
Hudson Lockerby Rd.					0.20
Baker Shore Rd.		0.55			
Gormans Lane			0.28		0.40
Smith Rd.					0.30
Orchard Lane					0.25
Ferry Rd. Lot 16					0.25
Lyle Rd.					0.15
MacArthur Rd.			0.80		0.87
Gordons Wharf Rd.					0.15
Kelly Rd.					0.97 Long Patch
Beaton Rd.					1.07 Long Patch
Barlow Rd.					1.50 Long Patch

Richard Rd.					2.1 Long Patch
Sunnyside Rd.					1.1 Long Path
Wright Rd. Arlington					1.1 Long Patch
Gibay Creek				0.45	
Totals	**3.65**	**0.72**	**1.08**	**0.45**	**10.41**

Note: No data was recorded for the columns "shoulders," "tap drains," and "bush cutting."

Zone 24	**Ditching**		**Other Maintenance Activities**		
Name of Road	**Paved**	**Unpaved**	**Graded**	**Shaled**	**Gravel**
Linkletter Rd.	0.36				
Ives Rd.		0.52			
Camp Rd. Off Ives Rd.		0.10			
Cemetery Rd. Egmont Bay		0.20			0.10
St. Nicholas Rd.	0.14				
Rt. 11 Union Corner	0.20		Yes		
Kinsmen Rd.	0.56				
Spring St. Wellington	0.20				
Cajetan Arsenault Rd.	0.20				
Rt. 129 St. Phillipe	0.20				
School Rd. Cape Egmont		0.40	Yes		0.20
Wharf Rd. Miscouche		1.60			0.20
Clay Rd. Egmont Bay		1.00			
Jack Alward Rd.			Yes		0.10
Higgins Rd.			Yes	0.10	
Cannon Town Rd.			Yes		0.40
Taddy Rd			Yes		0.10
Crafer Rd.		0.40	Yes		0.20
Leard Mills Rd.		0.40	Yes	0.20	
Princetown Rd.		0.50	Yes	0.10	

Thompson Rd.		0.50	Yes		
Mathews Rd.		0.50	Yes		
Taylor Rd.			Yes	0.10	
Totals	**1.86**	**6.12**		**0.50**	

Note: No data was recorded for the columns "shoulders," "tap drains," and "bush cutting."

Zone 25	**Ditching**		**Other Maintenance Activities**		
Name of Road	**Paved**	**Unpaved**	**Graded**	**Shaled**	**Gravel**
O'Leary Route 11243	0.30				
O'Leary Route 142	0.30				
Springfield Route 142	0.15				
Knutsford Route 142	0.15				
OHalloran Route 145	1.31				
Hebron Route 164	0.68				
Locke Route 147	0.62				
MacDougall Route 141	0.20				
Boulter Route 140	0.35				
UnionVille Route 142	0.26				
O'Leary Route 142	0.17				
Navoo Route 147	0.78				
MillRiver	0.24				
Route 14	0.12				
Boulter Route 140		1.47	1.47		
Ramsay Route 176		1.30	1.30		1.30
Marquis			1.30		
Herbon Route 164		0.30	0.30		0.15
Totals	**5.63**	**3.07**	**4.37**		**1.45**

Note: No data was recorded for the columns "shoulders," "tap drains," and "bush cutting."

Zone 26	Ditching		Other Maintenance Activities		
Name of Road	**Paved**	**Unpaved**	**Graded**	**Shaled**	**Gravel**
Trainer Rd.			1.20		1.40
Wells Road			1.00		0.40
Name of Road	**Paved**	**Unpaved**	**Graded**	**Shaled**	**Gravel**
Kildare Shore		0.40	0.40		
Southwest Rd.		0.38			
Route 2 Rosebank	0.39				
Dock Rd.	0.21				0.45
Butcher Rd	0.96				
Centerline Rd.		0.27			
Miminegash	0.67				
Cheese Factory Rd.					0.10
Pridham Rd.					0.10
Route 12 Cascumpec					0.25
Route 2 Alma					0.29
Route 153 Huntley					0.38
Totals	**2.23**	**1.05**	**2.60**		**3.37**

Note: No data was recorded for the columns "shoulders," "tap drains," and "bush cutting."

Zone 27	Ditching		Other Maintenance Activities		
Name of Road	**Paved**	**Unpaved**	**Graded**	**Shaled**	**Gravel**
Palmer Road					0.35
Arsenault Rd.		0.85	0.45		0.40
Gaudet Rd.		0.66			0.32
Josie Shang Rd.					0.29
Waterford	0.27				
Ascenison Rd.	0.39				
Christopher Rd.		0.12			0.08
Route 14 Skinners Pond					0.18
Huntly					0.13
Totals	**0.66**	**1.63**	**0.45**		**1.75**

Note: No data was recorded for the columns "shoulders," "tap drains," and "bush cutting."

WESTERN REGION: WINTER MAINTENANCE

Ice Control

Winter activities included snow removal, salting and sanding operations and temporary repairs to paved roads. Three hundred tonnes of cold mix asphalt was used to make temporary repairs to the paved roads in the region. Repairs to culverts, catch basins and shoulder washouts were performed as required.

The Department purchased 34,317 tonnes of blended winter sand for the region. The blended material consisted of 6% salt added to a sand mixture of 30% crushed 1/4 minus stone and 70% local sand. During the past year there were 11 sand piles located throughout the region. Sanding operations were carried out by 21 sanding contractors using Department installed spreaders. In addition, two Department trucks were utilized to provide service in the Linkletter, Slemon Park, Traveller's Rest and Lower New Annan areas. One Department truck equipped with a sand spreader and plow gear sanded 22 kms. on Route 225 from Route 1A to Route 13.

The Department purchased 6,973 tonnes of salt for use on approximately 200 kms. of highway or the equivalent of 400 pass kms. Six tandem trucks were equipped with snowplow gear and new computerized salt/sand spreaders were utilized for this purpose.

The Department had snow removal equipment stationed in the following locations in the region.

Location	Kms	Graders	4x4 trucks	Blowers	Loaders	Trucks
Tignish	40.3					1
Harper Rd	26.9	1				
Cascumpeque	40.4		1			
Fortune Cove	24.9	1				
Bloomfield	42.1					1
Coleman	33.3	1				
Poplar Grove	31.3	1				
Springhill	30.7	1				
Alma				1		1
Albany	27.5		1			
Kinkora	21.4		1			
Albany	21.8					1
S'side Garage	98.59	1	0	2	1	3
County Spares		2	0	1	1	1
Searle town	36.1		1			
Total	**475.2**	**8**	**4**	**4**	**2**	**8**

Snow Fence Report

The Department installed approximately 4,000 metres of snow fence adjacent to Department plowed snow routes to control drifting in open areas.

Winter Plowing

Total snowfall recorded at Environment Canada recording stations in the western region were:

	Recorded (cm)				
Month	**Alberton**	**O'Leary**	**Tyne Valley**	**Victoria**	**Long River**
November 15-30, 2001	12.3	18	28	28.6	13
December 2001	31.5	23	36	45	27
January 2002	44.4	43	54	48.6	33
February 2001	52.6	43	47	30.4	30
March 2002	61.4	43	49	34.8	21
April 1-15, 2002	26.3	20	20	17	15

The heaviest snowfall for the season in the region was recorded on January 22, 2002, at the Victoria recording station with a total of 29.4 centimetres.

Contracted Services

The following is a breakdown of contracted snow removal services for the period covered by the 1997-2000 contract, Area 2. This report covers the final year of the contract.

Contractor	Kms	Contract Area	Grader(s)	Loader(s)	Blower(s)	Truckplow
Clearview Construction	147.75	Zone 27	2	2	3	6
Harper Construction	88.26	Zone 26	1	1	1	3
HI Construction	91.17	Zone 26/25	2	1	2	3
Matthews Lime Spreading	90.92	Zone 25	2	1	2	2
Curran & Briggs	173.14	Zone 23	6	2	2	2
AJL Limited	37.72	Zone 24	3	1	2	
Acadia Construction	111	Zone 24/22	0	2	2	5
Westisle Construction	107.33	Zone 20, 19, 22	2	1	1	2
A.K.Construction	152.98	Zone 20/18	2	2	3	5
Duffy Construction	91.84	Zone 19/18	1	1	2	7

MECHANICAL BRANCH

Expenditures

Operating budgets for the Mechanical Branch and Fleet Operations in 2002-2003 totalled $11,449,000 million. The budget appropriation was distributed as follows:

Activity Centre	Total
Charlottetown Garage Direct	$3,261,700
Charlottetown Garage Indirect	952,200
Bridgetown Garage Direct & Indirect	1,388,500
Summerside Garage Direct	1,586,000
Summerside Garage Indirect	200,700
Prince County Operators	1,017,000
Queens County Operators	2,051,600
Kings County Operators	991,200
Total	**$11,449,000**

Note: The operating expenditures for the Mechanical Branch only in 2002-2003 totalled $11,751,521 million. This represents an over expenditure of $302,521. The increase in expenditures is a result of marginal increases in maintenance activities, parts and fuel costs.

Equipment

During the year, a total of $500,000 from capital accounts was invested to upgrade the Mechanical Branch fleet. The following equipment was purchased:

County	Quantity	Equipment Purchased
Prince	1	Wood Chipper
	3	Sand Hopper
	1	½ Ton Parts Truck
	2	½ Ton District Supervisor Trucks
Queens	1	Wood Chipper
	1	1½ Ton Sign Truck
	1	1 Ton Service Truck
	2	½ Ton District Supervisor Truck
Kings	1	Wood Chipper
	1	Single Axle Dump Truck
	1	½ Ton District Supervisor Truck
	1	1 Ton Crew Cab

Each year this report includes a table to show the average fleet ages as an indicator of the progress of the Fleet Replacement Program. The ideal number in the *"% Units Over Half Age"* column is 50%. At any given time, half of the vehicles in the fleet should be older than, and half younger than, 50% of the optimum replacement age. The table shows that the Mechanical Branch fleet still is over-aged and identifies the problem areas.

		Fleet Age Indicators In Years			
Unit	**Quantity**	**Optimum Life**	**Target Average Age**	**Actual Average Age**	**Units Over Half Age**
Light Truck	40	6	3	5.64	72.5%
Single Axle	20	10	5	9.25	70%
Tandem	26	10	5	8.07	57.7%
4 x 4	21	20	10	16.57	85.7%
Graders	30	20	10	16.33	73.3%
Loaders	18	20	10	17.17	77.8%
Blower	18	25	12.5	24.72	100%
Tractor	17	20	10	11.93	41.2%
Grade-all	2	20	10	12	100%
Spreader	2	20	10	4.5	0%
Rollers	3	20	10	8.66	33.3%
Trailers	22	15	7.5	8.5	45.5%

Replacement Program

Each year, Department staff continue to conduct a total review of the equipment to determine a replacement program. This program determines the most immediate needs of the Department, namely operational requirements and replacement of existing equipment that has exceeded their useful life cycle. This program identifies equipment requirements for years one through five and the annual costs necessary to accomplish it.

Systems

The Fleet Management System, purchased in 1999 and operational in 2000, continues to be utilized to provide an account of the operating and maintenance costs associated with the Department's fleet of vehicles.

Key Result Areas

Achievements of key result areas were as follows:

Financial Control

The measure for financial control is budget achievement. The target is 100% achievement of budget. In 2002-2003, expenditures exceeded budget as a result of over expenditures on repairs to heavy fleet equipment contributed to by increased costs of parts and aging fleet.

Safety

The target in this area of safety is 'zero' lost time incidents per year. In 2002-03 the total number of days lost due to work-related injuries was 14. A decrease of over 50% from last year's figure of 31 days lost.

- Prince County: 6
- Queen's County: 8
- King's County: 0

The Department continues to promote safety awareness and look at methods that will allow for safer work environments and educate the work force in areas of safety issues.

Training

The Mechanical Branch continues to consider training as a priority and therefore provides training in the following areas:

- First Aid
- Equipment Maintenance
- Forklift Training
- WHIMIS
- Computerized Salt Spreading Equipment
- Air Brake Maintenance
- Stress Management
- Apprenticeship Training
- Electronic Detroit Diesel Engine Training

The Department will continue to explore a variety of training options in the years to come.

STATEMENT OF EXPENDITURES

Statement of Ordinary Expenditures					
DEPARTMENT MANAGEMENT					
EXECUTIVE OFFICE					
Salaries	260,070				
Administration	21,320				
Equipment	3,461				
Materials & Supplies	4,981				
Travel & Training	24,845				
Total Executive Office		314,677			
FINANCE, HUMAN RESOURCES & OPERATIONS					
DIRECTOR'S OFFICE					
Salaries	330,815				
Administration	5,491				
Equipment	1,527				
Professional Services	2,743				
Travel & Training	2,700				
Total Finance, Human Resources & Operations					
Director's Office		343,276			
FINANCE SECTION					
Salaries	308,274				
Administration	18,869				
Equipment	2,608				
Materials & Supplies	13,354				
Travel & Training	6,843				
Total Finance Section		349,948			
HUMAN RESOURCES SECTION					
Salaries	304,523				
Administration	6,666				
Equipment	16,852				
Materials & Supplies	1,602				
Professional Services	159,636				
Travel & Training	4,021				
Total Human Resources Section		493,300			

TOTAL DEPARTMENTAL MANAGEMENT			1,501,201		
HIGHWAY SAFETY DIVISION					
HIGHWAY SAFETY ADMINISTRATION					
Salaries	36,495				
Administration	68,628				
Equipment	8,822				
Materials & Supplies	6,003				
Professional Services	79,596				
Travel & Training	12,150				
Total Highway Safety Administration		211,694			
PROMOTION HIGHWAY SAFETY					
Salaries	359,374				
Administration	12,694				
Equipment	2,502				
Materials & Supplies	76,466				
Professional Services	37,160				
Travel & Training	34,454				
Total Promotion Highway Safety		522,650			
REGISTRATION & LICENSING					
Salaries	99,788				
Administration	10,696				
Equipment	7,097				
Materials & Supplies	113,586				
Professional Services	240				
Travel & Training	3,520				
Total Registration & Licensing		234,927			
RECORDS					
Salaries	157,134				
Administration	465				
Equipment	1,724				
Materials & Supplies	199				
Total Records		159,522			

SUMMERSIDE DEPUTY REGISTRAR'S OFFICE					
Salaries	83,156				
Travel & Training	24				
Total Summerside Deputy Registrar's Office		83,180			
HIGHWAY SCALES					
Salaries	551,069				
Administration	12,630				
Equipment	31,183				
Materials & Supplies	20,019				
Professional Services	280				
Travel & Training	27,798				
Total Highway Scales		642,979			
TOTAL HIGHWAY SAFETY DIVISION			1,854,952		
HIGHWAY MAINTENANCE DIVISION					
DIRECTOR'S OFFICE					
Salaries	241,789				
Administration	14,667				
Equipment	108				
Materials & Supplies	11,113				
Professional Services	63,711				
Travel & Training	10,781				
Grants	75,162				
Total Director's Office		417,331			
WESTERN REGION - ADMINISTRATION					
Salaries	358,710				
Administration	39,925				
Equipment	4,245				
Materials & Supplies	4,297				
Travel & Training	1,984				
Total Western Region - Administration		409,161			
CENTRAL REGION - ADMINISTRATION					
Salaries	480,180				
Administration	76,104				

Equipment	670				
Materials & Supplies	226				
Travel & Training	33,832				
Total Central Region - Administration		591,012			
EASTERN REGION - ADMINISTRATION					
Salaries	437,124				
Administration	57,876				
Equipment	411				
Materials & Supplies	89				
Professional Services	500				
Travel & Training	91,229				
Total Eastern Region - Administration		587,229			
TOTAL HIGHWAY MAINTENANCE ADMINISTRATION			2,004,733		
HIGHWAY MAINTENANCE ZONE OPERATIONS					
WESTERN REGION					
Salaries	2,179,970				
Materials & Supplies	4,102				
Travel & Training	64,133				
Total Western Region		2,248,205			
CENTRAL REGION					
Salaries	3,763,274				
Materials & Supplies	570				
Travel & Training	64,753				
Total Central Region		3,828,597			
EASTERN REGION					
Salaries	2,176,894				
Materials & Supplies	(15)				
Travel & Training	22,969				
Total Eastern Region		2,199,848			
TOTAL HIGHWAY MAINTENANCE ZONE OPERATIONS			22,326,258		

SUMMER MAINTENANCE					
WESTERN REGION					
Equipment	6,336				
Materials & Supplies	1,391,961				
Professional Services	163,467				
Total Western Region		1,561,764			
CENTRAL REGION					
Materials & Supplies	1,933,773				
Professional Services	192,868				
Travel & Training	252				
Total Central Region		2,126,893			
EASTERN REGION					
Administration	4				
Materials & Supplies	1,216,375				
Professional Services	254,250				
Total Eastern Region		1,470,629			
RAILS TO TRAILS					
Salaries	401,541				
Administration	15,464				
Materials & Supplies	246,072				
Professional Services	143,543				
Travel & Training	16,366				
TOTAL RAILS TO TRAILS			822,986		
WINTER MAINTENANCE					
WESTERN REGION					
Salaries	503,723				
Materials & Supplies	1,136,691				
Professional Services	2,339,608				
Travel & Training	51				
Total Western Region		3,980,073			

CENTRAL REGION					
Salaries	702,375				
Materials & Supplies	1,576,284				
Professional Services	2,048,217				
Travel & Training	212				
Total Central Region		4,327,088			
EASTERN REGION					
Salaries	409,264				
Materials & Supplies	890,348				
Professional Services	1,138,749				
Travel & Training	5,984				
Total Eastern Region		2,444,345			
TOTAL WINTER MAINTENANCE			10,751,506		
MECHANICAL - GOVERNMENT GARAGE					
Salaries	7,539,025				
Administration	177,078				
Equipment	80,068				
Materials & Supplies	3,729,961				
Professional Services	100,614				
Travel & Training	124,778				
Total Mechanical - Government Garage			11,751,524		
TOTAL HIGHWAY MAINTENANCE				38,766,685	
PLANNING, BUILDINGS & PROPERTIES					
DIRECTOR'S OFFICE					
Salaries	114,862				
Administration	24,944				
Equipment	2,453				
Materials & Supplies	3,886				
Professional Services	258,991				
Travel & Training	10,184				
Total Director's Office		415,320			

BUILDING CONSTRUCTION					
Salaries	244,499				
Administration	5,696				
Equipment	1,003				
Materials & Supplies	1,079				
Travel & Training	28,187				
Total Building Construction		280,464			
PLANNING					
Salaries	188,565				
Administration	2,139				
Equipment	795				
Materials & Supplies	1,562				
Travel & Training	7,796				
Total Planning		200,857			
BUILDING DESIGN					
Salaries	221,878				
Administration	4,075				
Equipment	147				
Materials & Supplies	820				
Professional Services	2,388				
Travel & Training	16,199				
Total Building Design		245,507			
TOTAL CONSTRUCTION, PLANNING & BUILDING DESIGN			1,142,148		
PUBLIC WORKS OPERATIONS					
PUBLIC WORKS ADMINISTRATION					
Salaries	493,466				
Administration	61,466				
Equipment	2,575				
Materials & Supplies	68,707				
Professional Services	10,010				
Travel & Training	25,783				
Total Public Works Administration		662,007			

DISTRICT HEATING					
Materials & Supplies	184,089				
Professional Services	2,227,374				
Total District Heating		2,411,463			
TOTAL PUBLIC WORKS ADMINISTRATION			3,073,470		
DIRECT BUILDING MAINTENANCE					
Mona Wilson Building	43,769				
Shaw, Sullivan Jones Buildings	2,536,499				
Province House	209,703				
Province House Annex	45,787				
Government House	474,337				
Customs House	38,530				
Portable Classrooms	30,228				
Coles Building	145,732				
Prince County Jail & Courthouse	131,729				
Summerside Youth Center	270,121				
Provincial Correctional Center	286,425				
Montague Office Complex	84,008				
Southern Kings/Queens Regional Service Center	78,573				
West Prince Regional Service Center	59,453				
Kings County Jail & Courthouse	30,338				
Wood Islands VIC	23,942				
Sally's Beach	2,529				
Scale House - Borden/Wood Islands	82,607				
Mt. Albion Storage Warehouse	241				
Environmental Warehouse	1,328				
French Museum	10,614				
Forestry Depot - Queens	24,450				
Belmont St. Warehouse	32,414				
Kings Bi-Way VIC	42,809				
Cavendish VIC	41,827				
Vet Clinic O'Leary	45,809				
Southern Kings Highway Depot	1,781				
Alberton Courthouse	19,854				
Forestry Depot - Prince	18,700				
Forestry Depot - Kings	17,650				
Lady Slipper VIC	48,179				
Brackley VIC	14,539				

Basin Head Museum	5,964				
Orwell Corner	4,538				
Portage VIC	16,895				
Tyne Valley Youth Center	27,068				
Georgetown Youth Center	41,016				
Green Park Historical Village	8,037				
Elmira Railway Station	208				
Potato Service Bldg. - Kensington	29,883				
Sign Shop - Tignish	24,833				
Alma Field Office	25,183				
Highways Material Lab	65,586				
Brighton Road Office Complex	44,480				
Holland College - Royalty Operations	276,802				
North Cape Wind Site	129,088				
Total Direct Building Maintenance		5,594,086			
BUILDING ACCOMMODATIONS					
Charlottetown Airport VIC	17,056				
Provincial Records Center	300				
Pickard Bldg - 9 - 11 Queen St.	33,624				
Legislative Council - Holman Tower	35,932				
O'Leary Dental Clinic	3,702				
Harbour Quay	22,406				
Upton Rd. Disinfection Station	27,538				
Cavendish Cottage	3,554				
Kensington Community Center	2,504				
Tignish Health Co-op	5,222				
Farm Center	29,107				
Firearms Office	28,993				
Potato Board - Borden Carleton	40,000				
St. Peters VIC	32,818				
Confederation Center Library	20,000				
Heritage Development	8,000				
Access P.E.I. - Stratford	21,992				
Access P.E.I. - Crapaud	4,000				
Carr Bldg, North River Rd	50,833				
Research Bldg.	32,820				
Souris VIC	20,338				
Wood Islands VIC	87,092				
Access P.E.I. - Tignish	12,023				
Royalty Center	81,059				

Evangeline RSC	64,125				
Johnny Ross Young RSC	191,513				
Research Station	267,405				
Queens Region Health Authority - Ellis Bros Bldg	396,215				
Health Agency Younker, Roche Bldg	343,565				
Media Center -Basilica Rec Center	24,812				
Provincial Library Morell	180,721				
St. Paul's Rectory	34,893				
Holland College	3,396				
Albert Thomas Building	87,402				
Sherwood Fire Hall	149,757				
Concorde Building	144,146				
Davies Law Courts	846,078				
Highway Safety Office	154,477				
Stonehouse VIC	67,619				
Fisheries Warehouse	49,711				
Georgetown Office	48,554				
Kelly Building	207,577				
Access P.E.I. - Summerside	680,896				
Queen's County Sheriff's Office	61,049				
Smallman Building	29,860				
Total Building Accommodations		4,654,684			
TOTAL PUBLIC WORKS OPERATIONS			13,322,240		
PROPERTIES					
Salaries	645,859				
Materials & Supplies	17,562				
Property Taxes of Prov.-Owned Property	81,602				
Control Survey Network, Legal Fees & Contract Services	26,517				
Equipment	4,228				
Administration	15,783				
Crown Land	38,656				
Travel & Training	21,551				
Total Properties			851,758		
TOTAL PLANNING, BUILDINGS & PROPERTIES				15,316,146	
CAPITAL PROJECTS DIVISION					

CHIEF ENGINEER'S OFFICE					
Salaries	230,091				
Administration	25,846				
Equipment	2,291				
Materials & Supplies	23,484				
Professional Services	61,261				
Travel & Training	4,499				
Total Chief Engineer's Office		347,472			
WESTERN REGION					
Salaries	852,749				
Administration	24,681				
Equipment	67,000				
Materials & Supplies	31,518				
Professional Services	2,383				
Travel & Training	52,272				
Total Western Region		1,030,603			
CENTRAL REGION					
Salaries	695,748				
Administration	19,381				
Equipment	5,297				
Materials & Supplies	49,561				
Professional Services	13,980				
Travel & Training	38,169				
Total Central Region		822,136			
EASTERN REGION					
Salaries	597,438				
Administration	14,731				
Equipment	26,385				
Materials & Supplies	16,292				
Travel & Training	42,090				
Total Eastern Region		696,936			
SPECIAL PROJECTS					
Salaries	69,876				
Administration	333				

Equipment	750				
Materials & Supplies	974				
Travel & Training	546				
Total Special Projects		72,479			
TOTAL CAPITAL PROJECTS ADMIN			2,969,626		
TRAFFIC OPERATIONS					
WESTERN REGION					
Salaries	338,221				
Administration	5,623				
Equipment	1,550				
Materials & Supplies	255,119				
Professional Services	2,180				
Travel & Training	20,132				
Total Western Region		622,825			
CENTRAL REGION					
Salaries	457,538				
Administration	5,354				
Equipment	3,281				
Materials & Supplies	461,638				
Professional Services	16,642				
Travel & Training	19,767				
Total Central Region		964,220			
EASTERN REGION					
Salaries	253,997				
Administration	3,950				
Equipment	3,031				
Materials & Supplies	206,376				
Professional Services	2,247				
Travel & Training	20,853				
Total Eastern Region		490,454			
SIGN SHOP					
Salaries	159,315				
Administration	4,109				

Equipment	627				
Materials & Supplies	157,291				
Professional Services	2,815				
Travel & Training	849				
Total Sign Shop		325,006			
TOTAL TRAFFIC OPERATIONS			2,402,505		
ENGINEERING SERVICES					
OPERATIONS					
Salaries	151,517				
Administration	8,317				
Equipment	17,063				
Materials & Supplies	5,202				
Professional Services	3,161				
Travel & Training	17,271				
Total Operations		202,531			
SURVEYS					
Salaries	332,168				
Administration	3,221				
Equipment	7,052				
Materials & Supplies	1,422				
Professional Services	73,654				
Travel & Training	15,865				
Total Surveys		433,382			
PAVEMENT MANAGEMENT					
Salaries	131,445				
Administration	4,436				
Equipment	57				
Materials & Supplies	20,058				
Professional Services	1,747				
Travel & Training	11,289				
Total Pavement Management		169,032			
TOTAL ENGINEERING SERVICES			804,945		

HIGHWAY DESIGN					
Salaries	181,888				
Administration	2,914				
Equipment	46,024				
Materials & Supplies	7,542				
Professional Services	11,993				
Travel & Training	12,733				
Total Highway Design		263,094			
BRIDGE MAINTENANCE					
Salaries	464,574				
Administration	6,671				
Equipment	763				
Materials & Supplies	200,461				
Professional Services	31,616				
Travel & Training	30,390				
Total Bridge Maintenance		734,475			
MATERIALS TESTING LAB					
Salaries	890,531				
Administration	26,917				
Equipment	127,691				
Materials & Supplies	35,929				
Professional Services	1,878				
Travel & Training	41,698				
Total Materials Testing Lab		1,124,644			
TOTAL CAPITAL PROJECTS DIVISION				8,299,289	
ENVIRONMENTAL MANAGEMENT					
Salaries	273,791				
Administration	8,374				
Equipment	1,465				
Materials & Supplies	2,332				
Professional Services	37,374				
Travel & Training	36,515				
Total Environmental Management		359,851			

HIGHWAY ENHANCEMENT					
Salaries	297,995				
Administration	262				
Materials & Supplies	1,762				
Total Highway Enhancement		300,019			
PROVINCIAL WASTE MANAGEMENT					
Salaries	80,154				
Administration	118				
Professional Services	730,504				
Travel & Training	4,709				
Grants	500,000				
Total Provincial Waste Management		1,315,485			
TOTAL ORDINARY ACCOUNTS				67,713,628	
Statement of Capital Expenditures					
CULVERTS C/A					
Western Region	266,900				
Central Region	152,576				
Eastern Region	23,823				
Total Culverts C/A		443,299			
BRIDGES C/A					
WESTERN REGION					
Sea Cow Pond	44,298				
Total Western Region		44,298			
CENTRAL REGION					
Vernon River Bridge	226,298				
Morris Bridge	83,945				
Mt. Stewart	495,517				
Campbell's Rd Structure	20,496				
Total Central Region		826,256			

EASTERN REGION					
Murray River Bridge Rte 4	181,181				
Sturgeon Bridge Rte 17	964,324				
Total Eastern Region		1,145,505			
BRIDGES MISCELLANEOUS					
Bridges Miscellaneous	965,824				
Storm Damage Fall of 2003	102,567				
Total Bridges Miscellaneous		1,068,391			
TOTAL BRIDGES C/A			3,084,450		
PROVINCIAL PAVING					
WESTERN REGION					
Ditching & Surfacing - Dist 19	59,617				
Ditching & Surfacing - Dist 20 & 24	75,057				
Ditching & Surfacing - Dist 23	56,032				
Ditching & Surfacing - Dist 25	60,511				
Ditching & Surfacing - Dist 26 & 27	142,046				
Alma Field Office	26,029				
Supply & Place Asphaltic Concrete-Curran & Briggs	1,082,692				
Supply & Place Asphaltic Concrete-H.I. Const.	946,940				
Total Western Region		2,448,924			
CENTRAL REGION					
Ditching & Surfacing - Dist 6	73,568				
Ditching & Surfacing - Dist 9, 15 & 17	32,273				
Ditching & Surfacing - Dist 8	64,188				
Park St. - Construct Shed	5,900				
Ditching & Surfacing - Dist 16	68,626				
Ditching & Surfacing - Dist 18	49,993				
St. Patrick's Rd	49,216				
Highway Marking	85,000				
Recap Paving	909,909				
Supply & Place Asphaltic Concrete	454,141				

Seeding	66,133				
Total Central Region		1,858,947			
EASTERN REGION					
Ditching & Surfacing - Dist 1	114,670				
Tack Tank, Motor & Pump - Patching Crew	2,767				
Ditching & Surfacing - Dist 2	78,019				
Bridgetown Garage - Septic System	19,356				
Ditching & Surfacing - Dist 3	33,488				
Ditching & Surfacing - Dist 4	49,446				
Ditching & Surfacing - Dist 5	45,618				
Traffic Barricade	1,830				
Recap Paving	556,588				
Bridgetown Depot Noise Attenuation	10,782				
Supply & Place Asphaltic Concrete	462,234				
Total Eastern Region		1,374,798			
TOTAL PROVINCIAL PAVING			5,682,669		
HIGHWAY RECONSTRUCTION					
WESTERN REGION					
Albany - McCain Plant	268,858				
Norboro Rte 2	844,071				
Borden Ave. Extension	22,195				
Train Station Rd	87,088				
County Line Rd	24,338				
Town of Kensington	50,000				
Goff Bridge - Land	2,330				
Community of Miscouche - Grant	40,000				
O'Leary - Future Tech West	36,000				
O'Leary Intersection Rte 2 & 142	353,817				
O'Halloran Rd	176,519				
Northport Rd - Alberton Rte 152	304,252				
Town of Alberton - Lagoon System	114,917				
Bloomfield Industrial Park Rd	106,688				
Dewar Rd - Bloomfield	6,290				
Tignish Shore Rd	272,537				
Phillip & Church St. - Property	37,000				
Total Western Region		2,746,900			

CENTRAL REGION					
Wood Islands Rte 4	69,594				
Vernon River Co-op Purchase	90,000				
Town of Stratford-Storm Water Mgmt.	18,000				
Kinlock Rd Extension - TCH	248,308				
Mason Rd - Stratford	169,179				
Mt. Stewart Rte 351	33,990				
Stanhope Rte 25	116,602				
Riverside Dr. between Murchison & QEH	563,349				
Riverside Dr. Property Purchase	143,303				
Lower Malpeque Rd - Guardrail	5,867				
West Royalty Industrial Park - Upton Rd.	57,196				
Lowther Dr. - Cornwall	9,000				
Hilltop Dr. - Cornwall	36,603				
Warren Grove Rd - Sewer & Water	9,244				
Springvale Rte 2	755,669				
Meadowbank & Hyde Point Rd - Property	5,000				
Town of Cornwall - Storm Sewer	75,000				
Springfield Rte 2	709,296				
Colville Rd Rte 9	102,233				
Rte 6 between Rte 13 & MacCoubrey Lane	40,000				
Old New London Rd	217,589				
New London Corner - Demolish Garage	10,250				
Total Central Region		3,485,272			
EASTERN REGION					
Town of Souris - Main St.	125,000				
Rte 16 & 2 Intersection - St. Peters Property Purchase	85,000				
Morell Village-St. Peters Rd. Rte 2	276,131				
Greenwich Rd Rte 16 & 13	1,975,444				
Poole's Corner - Bell's Hill	1,353,495				
Town of Montague - Princess Dr.	250,000				
Queen's Rd Rte 210 - Shoppers Drug Mart	244,218				
Murray River Golf Course	11,761				
Total Eastern Region		4,321,049			
OTHER					
Liquid Asphalt	198,645				

Total Other		198,645			
TOTAL HIGHWAY RECONSTRUCTION			10,751,866		
STRATEGIC HIGHWAY IMPROVEMENT PROJECT					
Riverside Drive	669,250				
TCH Cornwall	409,797				
Pinette Sluiceway	55,261				
Total Strategic Highway Improvement Project		1,134,308			
PARKING LOT ASSISTANCE	29,080				
HIGHWAY EQUIPMENT	498,089				
TOTAL HIGHWAY CAPITAL			21,623,761		
BUILDINGS CAPITAL					
Southern Kings (Montague) RSC	767				
O'Leary Community Hospital	1,100,243				
Land Purchases	128,000				
Sullivan Building - Renovations	19,708				
Prince County Courthouse	587,741				
Sherwood Administration Building	432,181				
Holland College Royalty Center	335,386				
Visitor Information Centers Major Repairs	42,078				
Total Buildings Capital		2,646,104			
TOTAL TPW CAPITAL				24,269,865	
TOTAL TRANSPORTATION AND PUBLIC WORKS					91,983,493